

State of California  
The Resources Agency

DEPARTMENT OF WATER RESOURCES  
Division of Operations and Maintenance

# STATE WATER PROJECT OPERATIONS DATA

For the month of:  
**October**  
**2011**

**Edmund G. Brown Jr.**  
Governor  
**State of California**

**John Laird**  
Secretary for Resources  
**The Resources Agency**

**Mark Cowin**  
Director  
**Department of Water Resources**

This monthly report of operational data for the State Water Project has been published since January 1965. Monthly SWP Operations Data Reports from January 1990 have been made available on the Internet at <http://www.water.ca.gov/swp/operationscontrol/projectwide.cfm>. It provides the State Water Service Contractors, public agencies, consultants and others with the daily and monthly status of the Project's water and power operations.

Revisions to these data will appear in the Annual Report of Operations reflecting corrections made after the monthly summaries have been printed.

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**JOHN LAIRD, Secretary for Resources**

Department of Water Resources  
**MARK COWIN, Director**

Department of Water Resources  
**DALE HOFFMAN-FLOERKE, Chief Deputy Director**

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The organization shown above represents staff and positions relevant to this report as of publication date on October 2013. It is the Department's policy to not show staff in "Acting" or "Temporary" positions.

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## **MONTHLY HIGHLIGHTS**

The following activities highlight actions that affected State Water Project operations during October 2011:

Statewide precipitation was about 135 percent of average for the 2011 - 2012 water-year through October 31. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available on the internet at:  
[“http://cdec.water.ca.gov/snow\\_rain.html”](http://cdec.water.ca.gov/snow_rain.html).

Snowpack data is compiled four times annually, for the months of January, February, March, and April, by the California Department of Water Resources in Bulletin 120. The Bulletin also contains forecasts of seasonal runoff volume from the state's major watersheds, summaries of precipitation, and reservoir storages in various regions of the State.

October snowpack data is not available.

This month is the beginning of the new 2011-2012 water year. A “water year” is a 12-month period, just like a calendar year, except that a water year begins on October 1, and ends on September 30. The intent is to capture data that more fully represents a complete hydrologic cycle of winter and summer as opposed to providing statistical totals that only reflect partial extremes in operational activity.

Cumulative unimpaired runoff for the Sacramento River Region for the 2011 - 2012 water-year was 0.5 maf, 106 percent of average. Statewide runoff for the 2011 - 2012 water-year was 130 percent of average.

Statewide reservoir storage was 130 percent of average to date. Total storage in major SWP reservoirs at the end of October was about 4.44 maf compared to 2.72 maf at this time in 2010. On October 31, end-of-month storage at Lake Oroville was about 2.89 maf, as compared to 1.70 maf at this time in 2010. The State share of San Luis Reservoir's end-of-month storage was about 968 taf, as compared with 436 taf at this time in 2010. The combined storage in SWP's southern reservoirs was about 577 taf, compared with about 583 taf at this time in 2010.

SWP water deliveries to date through October were about 4.26 maf. Water deliveries are a combination of project, transfer, and exchange classifications. Total deliveries through this same period in 2010 were 3.04 maf.

COA accounting remained suspended at zero in October. Conditions in the Delta remained in “Excess”. Excess conditions exist when upstream reservoir releases plus unregulated natural flow exceed Sacramento Valley in-basin uses, plus exports.

There were seven measurable earthquakes in October within the vicinity of the SWP; no facilities were found to meet inspection criteria. Starting on October 10, Badger Hill Units 1, 2, 4, 5, and 6 continued to be in and out of service due to pond weeds. On October 30, Buena Vista P.P. Units 1 through 10 were unavailable due to divers repairing Aqueduct leak in Pool 30

**Table 1. Antelope Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

**October 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Sep 30	4999.75	20,524									
1	4999.71	20,488	-36	20	0	0	0	3	23	5	
2	4999.67	20,453	-35	20	0	0	0	3	23	5	
3	4999.63	20,418	-35	20	0	0	0	3	23	5	
4	4999.57	20,365	-53	20	0	0	0	3	23	-4	
5	4999.65	20,436	71	20	0	0	0	3	23	59	
6	4999.65	20,436	0	20	0	0	0	3	23	23	
7	4999.64	20,427	-9	20	0	0	0	3	23	18	
8	4999.60	20,392	-35	20	0	0	0	3	23	5	
9	4999.57	20,365	-27	20	0	0	0	3	23	9	
10	4999.57	20,365	0	20	0	0	0	3	23	23	
11	4999.53	20,330	-35	20	0	0	0	3	23	5	
12	4999.50	20,304	-26	20	0	0	0	3	23	10	
13	4999.47	20,278	-26	20	0	0	0	3	23	10	
14	4999.45	20,260	-18	20	0	0	0	3	23	14	
15	4999.41	20,225	-35	20	0	0	0	3	23	5	
16	4999.39	20,208	-17	20	0	0	0	3	23	14	
17	4999.35	20,173	-35	20	0	0	0	3	23	5	
18	4999.32	20,146	-27	20	0	0	0	3	23	9	
19	4999.31	20,138	-8	20	0	0	0	3	23	19	
20	4999.25	20,085	-53	20	0	0	0	3	23	-4	
21	4999.22	20,059	-26	20	0	0	0	3	23	10	
22	4999.19	20,033	-26	20	0	0	0	3	23	10	
23	4999.16	20,007	-26	20	0	0	0	3	23	10	
24	4999.13	19,981	-26	20	0	0	0	3	23	10	
25	4999.09	19,946	-35	20	0	0	0	3	23	5	
26	4999.05	19,912	-34	20	0	0	0	3	23	6	
27	4999.01	19,877	-35	20	0	0	0	3	23	5	
28	4998.72	19,627	-250	20	0	0	0	3	23	-103	
29	4998.69	19,601	-26	20	0	0	0	3	23	10	
30	4998.67	19,584	-17	20	0	0	0	3	23	14	
31	4998.62	19,541	-43	20	0	0	0	3	23	1	
Total cfs-days				---	620	0	0	93	713	217	
Total ac-ft				-983	1,230	0	0	184	1,414	431	

**Table 2. Frenchman Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

**October 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	1/ Water Supply Contract	Water Right					
Sep 30	5580.72	44,706									
1	5580.69	44,664	-42	2	6	0	0	5	13	-8	
2	5580.65	44,609	-55	2	6	0	0	5	13	-15	
3	5580.61	44,553	-56	2	6	0	0	5	13	-15	
4	5580.57	44,498	-55	2	6	0	0	5	13	-15	
5	5580.65	44,609	111	2	6	0	0	5	13	69	
6	5580.64	44,595	-14	2	6	0	0	5	13	6	
7	5580.61	44,553	-42	2	6	0	0	5	13	-8	
8	5580.58	44,512	-41	2	6	0	0	5	13	-8	
9	5580.54	44,457	-55	2	6	0	0	5	13	-15	
10	5580.53	44,443	-14	2	6	0	0	5	13	6	
11	5580.52	44,429	-14	2	6	0	0	5	13	6	
12	5580.50	44,401	-28	2	6	0	0	5	13	-1	
13	5580.48	44,474	73	2	6	0	0	5	13	50	
14	5580.46	44,346	-128	2	6	0	0	5	13	-52	
15	5580.44	44,319	-27	2	6	0	0	5	13	-1	
16	5580.42	44,291	-28	2	6	0	0	5	13	-1	
17	5580.41	44,277	-14	2	6	0	0	5	13	6	
18	5580.39	44,250	-27	2	6	0	0	5	13	-1	
19	5580.38	44,236	-14	2	6	0	0	5	13	6	
20	5580.36	44,209	-27	2	6	0	0	5	13	-1	
21	5580.35	44,195	-14	2	6	0	0	5	13	6	
22	5580.32	44,154	-41	2	6	0	0	5	13	-8	
23	5580.31	44,140	-14	2	6	0	0	4	12	5	
24	5580.28	44,099	-41	2	6	0	0	4	12	-9	
25	5580.25	44,057	-42	2	6	0	0	4	12	-9	
26	5580.28	44,099	42	2	6	0	0	4	12	33	
27	5580.23	44,030	-69	2	6	0	0	4	12	-23	
28	5580.21	44,002	-28	2	6	0	0	4	12	-2	
29	5580.19	43,975	-27	2	6	0	0	4	12	-2	
30	5580.18	43,961	-14	2	6	0	0	4	12	5	
31	5580.17	43,948	-13	2	6	0	0	4	12	5	
Total cfs-days				---	62	186	0	0	146	394	12
Total ac-ft				-758	123	369	0	0	289	781	23

1/ Last Chance Creek Water District.

**Table 3. Lake Davis**

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

**October 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Right 1/	Water Supply Contract 2/					
Sep 30	5770.14	66,016									
1	5770.11	65,910	-106	14	2.0	1	0	12	29	-24	
2	5570.04	65,664	-246	14	2.0	1	0	12	29	-95	
3	5770.05	65,699	35	14	2.0	1	0	12	29	47	
4	5770.02	65,593	-106	14	2.0	1	0	12	29	-24	
5	5770.13	65,981	388	16	0.2	1	0	12	29	225	
6	5770.13	65,981	0	16	0.2	1	0	12	29	29	
7	5770.10	65,875	-106	16	0.2	1	0	12	29	-24	
8	5770.07	65,769	-106	16	0.2	1	0	12	29	-24	
9	5770.05	65,699	-70	16	0.2	1	0	12	29	-6	
10	5770.04	65,664	-35	16	0.2	1	0	12	29	11	
11	5770.04	65,664	0	15	0.2	2	0	12	29	29	
12	5770.04	65,664	0	15	0.2	1	0	12	29	29	
13	5770.13	65,628	-36	16	0.2	1	0	12	29	11	
14	5770.02	65,593	-35	16	0.2	1	0	12	29	11	
15	5770.01	65,558	-35	16	0.2	1	0	12	29	11	
16	5769.99	65,488	-70	16	0.2	0	0	12	28	-7	
17	5769.96	65,383	-105	15	0.2	0	0	12	28	-25	
18	5769.95	65,347	-36	16	0.2	0	0	12	28	10	
19	5769.93	65,277	-70	16	0.2	0	0	12	28	-7	
20	5769.90	65,172	-105	15	0.2	1	0	12	28	-25	
21	5769.89	65,137	-35	16	0.2	0	0	12	28	10	
22	5769.87	65,067	-70	16	0.2	0	0	12	28	-7	
23	5769.86	65,032	-35	16	0.2	0	0	12	28	10	
24	5769.85	64,997	-35	15	0.2	0	0	12	28	10	
25	5769.83	64,927	-70	16	0.2	0	0	12	28	-7	
26	5769.82	64,892	-35	15	0.2	1	0	12	28	10	
27	5769.79	64,787	-105	16	0.2	0	0	12	28	-25	
28	5769.77	64,718	-69	16	0.2	0	0	12	28	-7	
29	5769.75	64,648	-70	16	0.2	0	0	12	28	-7	
30	5769.74	64,613	-35	16	0.2	0	0	12	28	10	
31	5769.73	64,578	-35	16	0.2	0	0	12	28	10	
Total cfs-days				---	479	13	19	0	372	883	
Total ac-ft				-1,438	950	27	37	0	738	1,751	
										313	

1/ Includes unclassified non-project diversions to local agencies (Valberti and Romelli).

2/ Water contract includes 7 AF to Plumas County and 30 AF to Grizzly Ranch.

**Table 4. Lake Oroville**

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537, 580 ac-ft

**October 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow							Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal 2/	Lime Saddle Marina	Butte County Del Oro	Evaporation 3/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 4/
Sep 30	867.14	3,044,943										
1	866.38	3,034,165	-10,778	16,795	20	0	0	144	0	16,959	0	6,181
2	865.42	3,020,589	-13,576	16,636	20	0	0	152	0	16,808	0	3,232
3	864.73	3,010,858	-9,731	16,746	18	0	0	172	0	16,936	0	7,205
4	863.78	2,997,496	-13,362	18,470	16	0	0	231	0	18,717	0	5,355
5	863.20	2,989,359	-8,137	18,506	15	0	0	50	0	18,571	0	10,434
6	862.31	2,976,903	-12,456	18,537	10	0	0	70	0	18,617	0	6,161
7	861.64	2,967,551	-9,352	15,383	8	0	0	80	0	15,471	0	6,119
8	860.98	2,958,358	-9,193	15,519	8	0	0	80	0	15,607	0	6,414
9	860.80	2,955,854	-2,504	7,727	8	0	0	80	0	7,815	0	5,311
10	860.56	2,952,518	-3,336	11,333	5	0	0	179	0	11,517	0	8,181
11	860.26	2,948,352	-4,166	10,736	2	0	0	20	0	10,758	0	6,592
12	860.05	2,945,438	-2,914	10,546	3	0	0	110	0	10,659	0	7,745
13	860.00	2,944,745	-693	8,091	4	0	0	189	0	8,284	0	7,591
14	859.84	2,942,527	-2,218	8,065	4	0	0	100	0	8,169	0	5,951
15	859.32	2,935,325	-7,202	13,426	4	0	0	199	0	13,629	0	6,427
16	859.28	2,934,772	-553	5,868	4	0	0	199	0	6,071	0	5,518
17	859.20	2,933,665	-1,107	6,653	4	0	0	247	0	6,904	0	5,797
18	859.04	2,931,453	-2,212	6,632	4	0	0	198	0	6,834	0	4,622
19	858.86	2,928,965	-2,488	6,636	4	0	0	337	0	6,977	0	4,489
20	858.67	2,926,341	-2,624	6,615	5	0	0	69	0	6,689	0	4,065
21	858.51	2,924,132	-2,209	6,708	6	0	0	158	0	6,872	0	4,663
22	858.36	2,922,063	-2,069	6,606	6	0	0	99	0	6,711	0	4,642
23	858.16	2,919,305	-2,758	6,645	6	0	0	99	0	6,750	0	3,992
24	858.07	2,918,065	-1,240	6,591	6	0	0	246	0	6,843	0	5,603
25	857.98	2,916,825	-1,240	6,542	6	0	0	128	0	6,676	0	5,436
26	857.77	2,913,933	-2,892	6,620	6	0	0	246	0	6,872	0	3,980
27	857.38	2,908,568	-5,365	6,633	6	0	0	256	0	6,895	0	1,530
28	857.05	2,904,034	-4,534	6,588	6	0	0	177	0	6,771	0	2,237
29	856.92	2,902,249	-1,785	6,693	6	0	1	98	0	6,798	0	5,013
30	856.67	2,898,819	-3,430	6,733	6	0	1	98	0	6,838	0	3,408
31	856.45	2,895,802	-3,017	6,711	6	0	1	256	0	6,974	0	3,957
<b>Total</b>		<b>-149,141</b>		<b>311,990</b>	<b>232</b>	<b>0</b>	<b>3</b>	<b>4,767</b>	<b>0</b>	<b>316,992</b>	<b>0</b>	<b>167,851</b>

1/ Includes bypass flows

2/ South Feather Water and Power Agency

3/ Evaporation will be zero for days when there is precipitation or heavy overcast.

4/ Does not include pumpback.

**Table 5. Thermalito Forebay  
Including Diversion Pool and Power Canal**

Daily Operation

(in acre-feet except as noted)

**October 2011**

Capacity: 25,120 ac-ft

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County Cal Water	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Sep 30	23,642										
1	24,203	561	16,795	426	0	15,316	4	5	1,436	0	101
2	24,141	-62	16,636	484	0	15,611	4	5	1,434	0	-128
3	24,013	-128	16,746	484	0	15,396	4	5	1,438	0	-515
4	23,898	-115	18,470	0	0	17,469	4	5	1,438	0	331
5	23,711	-187	18,506	0	0	17,628	4	5	1,444	0	388
6	23,744	33	18,537	0	0	17,410	4	5	1,448	0	363
7	23,684	-60	15,383	0	0	14,288	4	5	1,611	0	465
8	24,178	494	15,519	0	0	13,954	4	5	1,519	0	457
9	24,298	120	7,727	0	0	6,199	4	5	1,454	0	55
10	24,440	142	11,333	0	0	10,024	4	5	1,468	0	310
11	24,026	-414	10,736	0	0	8,824	4	5	1,462	0	-855
12	24,229	203	10,546	0	0	8,402	4	5	1,462	0	-470
13	24,155	-74	8,091	0	0	6,791	4	5	1,460	0	95
14	24,027	-128	8,065	0	0	6,825	4	5	1,456	0	97
15	24,247	220	13,426	0	0	11,932	4	5	1,458	0	193
16	23,683	-564	5,868	0	0	4,816	4	4	1,450	0	-158
17	23,998	315	6,653	0	0	4,623	4	4	1,446	0	-261
18	24,123	125	6,632	0	0	4,653	4	4	1,460	0	-386
19	24,244	121	6,636	0	0	4,716	3	4	1,466	0	-326
20	23,739	-505	6,615	0	0	5,666	3	4	1,466	0	19
21	23,946	207	6,708	169	0	4,992	3	4	1,458	0	-213
22	23,958	12	6,606	405	0	5,446	3	4	1,462	0	-84
23	24,325	367	6,645	341	0	4,794	3	4	1,458	0	-360
24	23,984	-341	6,591	238	0	5,857	3	4	1,462	0	156
25	24,046	62	6,542	203	0	5,162	3	4	1,466	0	-48
26	24,185	139	6,620	21	0	4,867	3	4	1,460	0	-168
27	24,329	144	6,633	0	0	4,813	3	4	1,470	0	-199
28	24,042	-287	6,588	0	0	5,328	3	4	1,470	0	-70
29	23,838	-204	6,693	65	0	5,497	3	4	1,468	0	10
30	23,937	99	6,733	143	0	5,144	3	4	1,462	0	-164
31	23,925	-12	6,711	75	0	5,242	3	4	1,460	0	-89
Total		283	311,990	3,054	0	267,685	111	139	45,372	0	-1,454

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

**Table 6. Thermalito Afterbay**

Daily Operation  
(in acre-feet except as noted)

Capacity: 57,040 ac-ft

**October 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
Sep 30	129.98	32,085											
1	129.82	31,556	-529	15,316	948	0	65	395	13,646	0	-791	15,082	
2	129.88	31,754	198	15,611	948	0	65	395	13,646	0	-359	15,080	
3	129.82	31,556	-198	15,396	942	0	65	397	13,666	0	-524	15,104	
4	130.29	33,122	1,566	17,469	994	0	65	397	13,666	0	-781	15,104	
5	130.75	34,690	1,568	17,628	988	0	65	397	13,646	0	-964	15,090	
6	131.13	36,010	1,320	17,410	980	0	65	395	13,646	0	-1,004	15,094	
7	130.91	35,243	-767	14,288	994	0	65	397	12,754	0	-845	14,365	
8	131.14	36,045	802	13,954	994	0	65	399	10,790	0	-904	12,309	
9	129.84	31,622	-4,423	6,199	988	0	65	395	9,243	0	69	10,697	
10	129.96	32,019	397	10,024	962	0	65	399	8,093	0	-108	9,561	
11	130.41	33,528	1,509	8,824	908	0	61	397	6,605	0	656	8,067	
12	131.02	35,625	2,097	8,402	873	0	61	397	5,276	0	302	6,738	
13	131.23	36,361	736	6,791	873	0	61	424	4,284	0	-413	5,744	
14	131.64	37,818	1,457	6,825	910	0	61	476	3,570	0	-351	5,026	
15	133.47	44,646	6,828	11,932	908	0	61	498	3,332	0	-305	4,790	
16	133.48	44,684	38	4,816	926	0	61	514	3,332	0	55	4,782	
17	133.54	44,917	233	4,623	926	0	155	559	3,213	0	463	4,659	
18	133.56	44,995	78	4,653	926	0	250	579	3,134	0	314	4,594	
19	133.60	45,151	156	4,716	926	0	317	577	3,134	0	394	4,600	
20	133.73	45,658	507	5,666	976	0	353	573	3,134	0	-123	4,600	
21	133.76	45,776	118	4,992	1,008	0	369	611	3,134	0	248	4,592	
22	133.88	46,247	471	5,446	1,008	0	369	615	3,134	0	151	4,596	
23	133.95	46,523	276	4,794	1,016	0	371	595	3,134	0	598	4,592	
24	134.05	46,918	395	5,857	1,016	0	422	607	3,134	0	-283	4,596	
25	134.01	46,760	-158	5,162	1,016	0	468	627	3,134	0	-75	4,600	
26	134.00	46,721	-39	4,867	1,002	0	506	647	3,134	0	383	4,594	
27	133.93	46,444	-277	4,813	994	0	514	688	3,154	0	260	4,624	
28	133.95	46,523	79	5,328	962	0	514	918	3,114	0	259	4,584	
29	133.86	46,168	-355	5,497	950	0	516	1,039	3,134	0	-213	4,602	
30	133.77	45,815	-353	5,144	948	0	518	1,041	3,134	0	144	4,596	
31	133.72	45,619	-196	5,242	906	0	516	994	3,134	0	112	4,594	
Total				13,534	267,685	29,716	0	7,170	17,340	196,284	0	-3,641	241,656

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

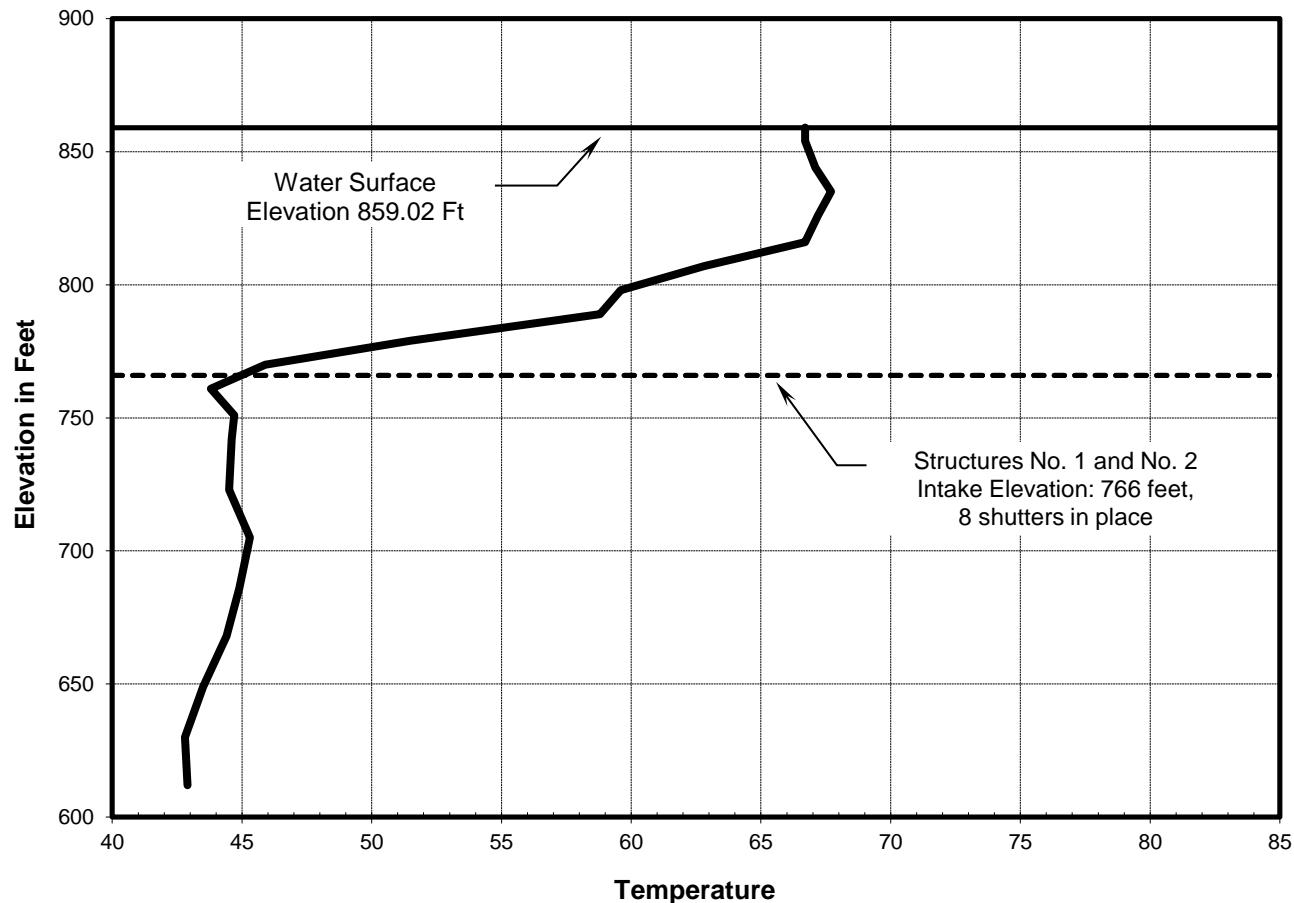
**Table 7. Oroville-Thermalito Complex**

Water Temperature Data

(in degrees Fahrenheit)

**October 2011**

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	57.3	53.5
2	57.1	53.7
3	56.2	53.7
4	55.3	53.9
5	54.2	53.9
6	54.1	55
7	54.5	51.7
8	55.5	51.7
9	56.1	52.1
10	55.8	50.7
11	56.4	50.8
12	57.6	51.8
13	57.7	51.8
14	57.7	51.3
15	57.6	51.8
16	56.7	52.9
17	58	52.2
18	58.6	52
19	57.2	51.7
20	57.6	52
21	58.6	52
22	58.6	52.2
23	58.2	52.6
24	58.2	52.7
25	57.7	52
26	58.2	52.5
27	57	52.1
28	56.7	52
29	56.7	52.2
30	56.6	52.5
31	56.5	52.7

**Lake Oroville Temperature Profile  
on October 19, 2011**

Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

**Table 8. North Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

**October 2011**

(In acre-feet)

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries					
	Beginning and Ending				Table A	Permit	Article 21	Settlement	Other	
	No.	Structure	Mile							
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	4,532	72 100 100	100 150 334	823		
		Travis Surge Tank	8.78							
			8.80	Solano County Water Agency Travis AFB	172					
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	250					
				Solano County Water Agency Fairfield / Vacaville 42"	1,257	1/ 100 200	681 543	300		
			17.00	Solano County Water Agency Central Solano	Stub					
2	3A	Cordelia Forebay	21.23							
		Cordelia Pumping Plant & Cordelia Spillway	21.30		2,721					
3B	2	Napa Pipeline	21.33	Solano County Water Agency Vallejo	781	2	632	263		
				Solano County Water Agency Benicia	1,043					
		Cordelia Surge Tank	23.33							
		Creston Surge Tank Connection	25.65							
			26.95	Napa County Flood Control & WCD American Canyon 2	2	2	263			
			27.27	Napa County Flood Control & WCD American Canyon 3	0					
		Napa Terminal Tank	27.58	City of Napa	632					
			27.60	Napa County Flood Control & WCD American Canyon 1	263					

1/ Includes 1 AF of Napa Co. FC&WCD Table A through Solano's Turnout for delivery to American Canyon.

**Table 9. Delta Field Division Plant Data**

(in acre-feet)

October 2011

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	164	86	14,072	14,072	536	0	0	0
2	159	64	13,328	13,328	539	0	0	0
3	144	57	12,403	12,403	529	0	0	0
4	116	52	13,272	13,272	474	0	0	0
5	114	51	13,272	13,272	427	0	0	0
6	103	51	13,272	13,272	397	0	0	0
7	115	68	11,088	11,088	434	0	0	0
8	123	70	10,330	10,330	411	0	0	0
9	113	77	13,339	13,339	391	0	0	0
10	86	54	13,215	13,215	336	0	0	0
11	38	26	13,215	13,215	333	0	0	22
12	4	4	13,216	13,216	340	0	0	28
13	15	12	13,079	13,079	374	0	0	0
14	76	54	13,309	13,309	395	0	0	3
15	106	71	13,402	13,402	399	0	0	0
16	116	63	13,960	13,960	396	0	0	0
17	127	69	13,216	13,216	416	0	0	0
18	177	115	13,216	13,216	430	0	0	0
19	199	126	12,032	12,032	436	0	0	0
20	194	117	12,080	12,080	417	0	0	0
21	208	134	11,088	11,088	440	0	0	0
22	198	118	14,615	14,615	429	0	0	0
23	212	130	16,032	16,032	434	0	0	0
24	221	132	13,273	13,273	427	0	0	0
25	206	122	12,576	12,576	344	0	0	10
26	218	141	12,584	12,584	383	0	0	0
27	192	125	12,575	12,575	365	0	0	0
28	195	131	12,870	12,870	362	0	0	0
29	193	134	13,327	13,327	369	0	0	0
30	184	124	13,328	13,328	358	0	0	0
31	216	143	13,195	13,195	378	0	0	0
Total	4,532	2,721	403,779	403,779	12,699	0	0	63

**Table 10. Clifton Court Forebay**

Daily Operation of Gates

**October 2011**

Date	Time										Amount of inflow in Acre-Feet
	Opened	Closed									
1	06:45	19:30									13,241
2	00:01	04:45	07:45	18:40							13,249
3	00:01	06:00	09:00	19:00							13,241
4	00:30	06:00	10:00	19:45							13,229
5	01:45	08:15	11:15	18:58							13,231
6	03:00	09:15	12:15	20:40							13,229
7	00:01	01:45	04:00	10:00	13:00						12,422
8		02:45	05:00	10:45	13:45	23:31					11,084
9	01:53	03:30	06:00	15:30	18:30	23:59					10,886
10	03:00	16:00	18:45	22:30							13,236
11	03:45	16:30	19:15	21:40							13,237
12	00:01	01:15	04:15	17:00	19:45	23:10					13,237
13	00:01	01:45	04:45	17:45							13,226
14	00:01	02:15	05:15	18:00							13,223
15	00:01	02:45	05:45	18:45							13,230
16	00:01	03:30	06:30	17:45							13,229
17	00:01	04:15	06:30	17:40							13,238
18	00:01	05:15	08:15	10:00							13,237
19	00:01	06:00	09:00	17:51							13,243
20	00:30	07:15	10:15	22:05							13,242
21	01:15	08:15	11:15								11,669
22		01:00	03:00	09:00	12:00	23:45					13,238
23	00:01	01:45	04:15	09:45	12:45	20:30					13,239
24	00:01	02:45	05:15	14:14	17:15	22:50					13,230
25	02:30	12:30	18:15	23:00							13,241
26	03:15	13:15	19:00								13,239
27		01:00	04:00	14:00	19:30						13,241
28		01:45	04:45	14:45	20:15						13,235
29		02:45	05:45	15:30	21:00						13,247
30		03:30	06:30	15:30	21:00						13,242
31		03:30	06:30								13,237
Total inflow for the month in AF:											403,448

**Table 11. Governor Edmund G. Brown California Aqueduct**

Delta Field Division, Monthly Deliveries

(In acre-feet)

**October 2011**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending		No.			Table A	USBR	Local Other	Pool A	Pool B			
	No.	Structure	Mile										
1A			1.83	Byron-Bethany I.D.	529			529					
1	1	Banks Pumping Plant	3.32		403,779								
		South Bay Pumping Plant	4.49	Bethany Reservoir (Into the South Bay Aquaduct)	12,699								
		Check No. 1	5.95										
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	0								
	2	Check No. 2	12.01										
			12.47	Musco Olive	52								
		Check No. 3	18.29										
	3		22.16	Tracy Golf & Country Club	0								
		Check No. 4	23.99										
2A	4	Check No. 5	29.73										
	5	Check No. 6	34.24										
	6		35.22	Turlock Fruit Company Inflow	0								
		Check No. 7	39.91										
	7		42.46	Oak Flat Water District-A	28		28						
			42.9	Western Hills WD	76								
			43.81	Oak Flat Water District-B	0								
			44.64	Oak Flat Water District-C	43		43						
		Check No. 8	45.97										
2B	8		46.18	Oak Flat Water District-D	68	68	76						
				Oak Flat Totals:	139								
	9	Check No. 9	51.3				28						
		Check No. 10	56.86										
	10	Check No. 11	61.4				139	0	0	0			
	11		66.14	Veteran's Cemetery	19								
		Check No. 12	66.71		361,333		19						

**Table 12. South Bay Aqueduct**  
Delta Field Division, Monthly Deliveries

October 2011

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.	Structure	Mile		Table A	Local	Article 14B	Pool A	Other	Recreation
1	1	South Bay Pumping Plant	0.00		(into South Bay Aqueduct)	12,699	11	257	282	55	34	11
			3.17		Granite - Vasco Rd. (Temp.)	0						
			3.18		Oakland Scavenger Zone 7	11						
	2	Check No. 1	3.91									
		Check No. 2	5.21									
	3		7.21		Zone 7 Water Agency Altamont	257						
2		Check No. 3	9.49		Zone 7 Water Agency Patterson Storage Exchange Project Water	0 282						
4	4	Check No. 4	10.68									
	5	Check No. 5	12.29									
	6		13.55		Zone 7 Water Agency Wente #1	55						
			14.16		Zone 7 Water Agency Wente #2	34						
			14.31		Zone 7 Water Agency Ising	11						
		Check No. 6	14.65									
	7		14.78		Zone 7 Water Agency Arroyo Mocho Project Water	575						
		Check No. 7	16.38									
	8		16.57		Zone 7 Water Agency Wente #3	0						
			16.63		Zone 7 Water Agency Wente #4	21						
			16.69		Zone 7 Water Agency Norman Nursery	0						
			16.70		Zone 7 Water Agency Concannon Project Water	14						
		Del Valle Branch Pipeline Junction	18.63		Pumped into Lake Del Valle	0						
					Pumped into South Bay Aqueduct	0						
					Gravity into South Bay Aqueduct	63						
		Deliveries through Del Valle Branch Pipeline			Zone 7 Water Agency Arroyo Valle #1 & #2 Project Water	315						
					Storage Exchange Inflow Release	198						
					East Bay Regional Park Dist. Del Valle Recreation	0						
					Zone 7 Water Agency Wente #5	39						
			19.20		Zone 7 Water Agency So. Livermore Project Storage Exchange Project Water	0 2,588						
6			19.21		Zone 7 - Kalthrof Detjens	20						
7	La Costa Tunnel	22.50			ACWD - Vallecitos Project Water	0						
		25.97			City of San Francisco San Antonio	0						
8	Mission Tunnel	28.97			ACWD - Bayside 1 & 2 Project Water	2,070	1,191	879	1/ 4,529	1,733	198	39
9	Santa Clara Pipeline	35.86			S.C.V.W.D. Meter	6,262						

1/ Delivery of Metropolitan WD water stored in Shasta to Santa Clara Valley WD in exchange for Santa Clara Valley WD Table A water.

**Table 13. Lake Del Valle**

Daily Operation

Capacity: 77,106 ac-ft

October 2011

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct 2/	Recreation Deliveries 3/	Evaporation	Total Outflow	
Sep 30	701.50	38,862									
1	701.46	38,834	-28	-19	0	0	0	1	8	9	0.00
2	701.45	38,827	-7	3	0	0	0	1	9	10	0.00
3	701.43	38,813	-14	-2	0	0	0	1	10	11	0.00
4	701.40	38,793	-21	-17	0	0	0	1	3	4	0.09
5	701.42	38,806	14	19	0	0	0	1	4	5	0.41
6	701.44	38,820	14	17	0	0	0	1	2	3	0.21
7	701.41	38,799	-21	-15	0	0	0	1	4	5	0.30
8	701.39	38,786	-14	-5	0	0	0	1	7	8	0.00
9	701.36	38,765	-21	-15	0	0	0	1	4	5	0.00
10	701.36	38,765	0	6	0	0	0	1	5	6	0.00
11	701.32	38,737	-28	-2	0	0	22	1	2	25	0.08
12	701.26	38,695	-42	-9	0	0	28	0	5	33	0.00
13	701.24	38,681	-14	-2	0	0	0	0	11	11	0.00
14	701.22	38,668	-14	1	0	0	3	0	11	14	0.00
15	701.19	38,647	-21	-12	0	0	0	0	9	9	0.00
16	701.18	38,640	-7	2	0	0	0	0	8	8	0.00
17	701.17	38,633	-7	2	0	0	0	0	8	8	0.00
18	701.13	38,605	-28	-18	0	0	0	0	10	10	0.00
19	701.11	38,591	-14	-5	0	0	0	0	8	8	0.00
20	701.10	38,584	-7	1	0	0	0	0	8	8	0.00
21	701.10	38,584	0	7	0	0	0	0	7	7	0.00
22	701.10	38,584	0	7	0	0	0	0	7	7	0.00
23	701.08	38,571	-14	-4	0	0	0	0	10	10	0.00
24	701.06	38,557	-14	-6	0	0	0	0	8	8	0.00
25	701.02	38,529	-28	-11	0	0	10	0	7	17	0.00
26	700.99	38,508	-21	-14	0	0	0	0	7	7	0.00
27	700.96	38,488	-21	-9	0	0	0	0	11	11	0.00
28	700.93	38,467	-21	-13	0	0	0	0	7	7	0.00
29	700.90	38,446	-21	-12	0	0	0	0	9	9	0.00
30	700.88	38,432	-14	-4	0	0	0	0	10	10	0.00
31	700.85	38,412	-21	-10	0	0	0	0	10	10	0.00
Total				-450	-141	0	63	11	235	309	1.09

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ Project water released to South Bay Aqueduct through Del Valle Pumping Plant.

3/ To East Bay Regional Park District.

NR=No Records

**Table 14. Consolidated State-Federal O'Neill Forebay**

Daily Operations

October 2011

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/		
Sep 30	221.15	46,154											
1	221.66	47,493	1,339	0	1,542	0	6,348	0	275	7,073	6	139	
2	221.50	47,073	-420	0	1,540	0	6,172	0	1,660	6,443	6	185	
3	221.97	48,308	1,235	0	1,678	0	5,923	0	1,655	5,367	6	50	
4	222.21	48,942	634	0	1,673	0	5,984	0	1,654	5,678	6	1	
5	222.60	49,980	1,038	0	1,954	0	6,289	0	3,310	4,581	6	177	
6	223.91	53,484	3,504	0	2,354	0	5,463	0	2,006	4,563	10	529	
7	224.62	55,401	1,917	0	2,401	0	5,009	0	1,670	5,089	10	325	
8	224.40	54,806	-595	0	2,487	0	4,449	0	2,366	5,155	10	295	
9	224.05	53,861	-945	0	2,581	0	6,355	0	4,981	4,466	10	45	
10	223.29	51,821	-2,040	0	2,705	0	5,855	0	4,935	4,593	10	-50	
11	222.84	50,619	-1,202	0	2,836	0	6,308	0	5,727	4,016	10	3	
12	223.60	52,652	2,033	0	2,782	0	6,169	0	3,690	4,500	10	274	
13	222.34	49,288	-3,364	0	2,677	0	5,907	0	6,402	3,906	5	33	
14	221.83	47,940	-1,348	0	2,603	0	6,059	0	5,055	4,437	5	155	
15	221.14	46,128	-1,812	0	2,806	0	6,295	0	5,187	5,063	5	240	
16	220.72	45,027	-1,101	0	2,986	0	6,356	0	5,187	5,215	5	510	
17	220.93	45,577	550	0	2,827	0	6,121	0	4,754	4,103	5	191	
18	220.55	44,583	-994	0	2,938	0	5,827	0	5,127	4,225	5	91	
19	220.44	44,296	-287	0	2,978	0	5,880	0	5,096	4,212	5	310	
20	219.98	43,100	-1,196	0	3,081	0	5,135	0	5,007	4,163	8	359	
21	219.44	41,708	-1,392	0	3,017	0	5,214	0	3,869	5,389	8	333	
22	219.62	42,170	462	0	2,981	0	6,360	0	3,607	5,610	8	117	
23	219.33	41,426	-744	0	2,871	0	7,477	0	4,988	5,956	8	229	
24	219.74	42,480	1,054	0	3,058	0	6,279	0	4,950	3,870	9	23	
25	219.69	42,351	-129	0	2,830	0	5,281	0	4,931	4,180	9	944	
26	220.02	43,204	853	0	2,804	0	5,179	0	3,784	4,465	9	705	
27	220.55	44,583	1,379	0	2,739	0	5,444	0	3,410	4,617	10	549	
28	220.91	45,525	942	0	2,723	0	5,423	0	2,313	5,837	18	497	
29	221.76	47,756	2,231	0	2,887	0	5,873	0	3,430	5,012	18	825	
30	222.17	48,836	1,080	0	2,936	0	6,019	0	3,430	5,255	18	292	
31	222.16	48,810	-26	0	888	0	5,717	0	999	5,856	18	255	
Total				2,656	0	79,163	0	182,170	0	115,455	152,895	276	8,631
Mean cfs				---	0	2,554	0	5,876	0	3,724	4,932	9	278
Acre-feet				2,656	0	157,017	0	361,333	0	229,006	303,266	548	17,126

1/ Pump-in located at Mile 79.67R.

2/ Includes 85 AF delivered to DFG at O'Neill Forebay, 6 AF to Parks & Rec., and 457 AF to San Luis Water District.

**Table 15. Consolidated State-Federal San Luis Reservoir**

Daily Operations

**October 2011**

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.		
Sep 30	500.74	1,516,179							
1	500.78	1,516,638	459	275	0	223	0	179	
2	500.94	1,518,478	1,840	1,660	0	200	0	-532	
3	501.18	1,521,239	2,761	1,655	0	198	0	-65	
4	501.41	1,523,886	2,647	1,654	0	176	0	-143	
5	502.00	1,530,685	6,799	3,310	0	152	0	270	
6	502.29	1,534,030	3,345	2,006	0	158	0	-162	
7	502.53	1,536,801	2,771	1,670	0	157	0	-116	
8	502.87	1,540,729	3,928	2,366	0	160	0	-226	
9	503.67	1,549,984	9,255	4,981	0	158	0	-157	
10	504.44	1,558,910	8,926	4,935	0	176	0	-259	
11	505.40	1,570,063	11,153	5,727	0	159	0	55	
12	505.95	1,576,465	6,402	3,690	0	156	0	-306	
13	506.99	1,588,595	12,130	6,402	0	153	0	-134	
14	507.80	1,598,065	9,470	5,055	0	184	0	-97	
15	508.59	1,607,319	9,254	5,187	0	165	0	-357	
16	509.36	1,616,356	9,037	5,187	0	153	0	-478	
17	510.09	1,624,940	8,584	4,754	0	179	0	-247	
18	510.88	1,634,247	9,307	5,127	0	188	0	-247	
19	511.62	1,642,982	8,735	5,096	0	177	0	-515	
20	512.36	1,651,732	8,750	5,007	0	177	0	-419	
21	512.93	1,658,483	6,751	3,869	0	164	0	-301	
22	513.46	1,664,769	6,286	3,607	0	170	0	-268	
23	514.22	1,673,797	9,028	4,988	0	172	0	-264	
24	514.96	1,682,604	8,807	4,950	0	174	0	-336	
25	515.70	1,691,426	8,822	4,931	0	155	0	-328	
26	516.25	1,697,994	6,568	3,784	0	145	0	-328	
27	516.74	1,703,852	5,858	3,410	0	125	0	-332	
28	517.06	1,707,682	3,830	2,313	0	107	0	-275	
29	517.54	1,713,432	5,750	3,430	0	104	0	-427	
30	518.05	1,719,548	6,116	3,430	0	101	0	-246	
31	518.21	1,721,469	1,921	999	0	117	2	88	
Total			205,290	115,455	0	4,983	2	-6,973	
Mean cfs			---	3,724	0	161	0	-225	
Acre-feet			205,290	229,006	0	9,891	3	-13,822	

1/ Pacheco Tunnel, San Felipe Split; Santa Clara 9,084 AF, Casa De Fruta 0 AF, and San Benito 807 AF.

**Table 16. San Luis Field Division Plant Data**

(in acre-feet)

**October 2011**

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	14,030	12,608	0	0	546	546	443
2	12,779	11,202	0	0	-15	-15	396
3	10,646	9,240	0	0	3,283	3,283	393
4	11,263	9,854	0	0	3,281	3,281	350
5	9,086	7,660	0	0	3,261	3,261	301
6	9,050	7,627	0	0	651	651	314
7	10,095	8,691	0	0	-26	-26	311
8	10,225	8,774	0	0	1,248	1,248	318
9	8,858	7,222	0	0	6,532	6,532	314
10	9,110	7,700	0	0	6,464	6,464	350
11	7,965	6,543	0	0	8,023	8,023	316
12	8,925	7,490	0	0	5,554	5,554	310
13	7,747	6,313	0	0	6,135	6,135	303
14	8,801	7,382	0	0	3,426	3,426	365
15	10,042	8,629	0	0	3,603	3,603	327
16	10,343	9,813	0	0	3,573	3,573	304
17	8,138	7,613	0	0	5,364	5,364	356
18	8,381	7,852	0	0	6,860	6,860	373
19	8,355	7,825	0	0	6,802	6,802	352
20	8,257	7,723	0	0	3,331	3,331	351
21	10,690	10,177	0	0	1,100	1,100	325
22	11,127	10,601	0	0	619	619	337
23	11,814	11,284	0	0	3,071	3,071	342
24	7,676	7,157	0	0	3,046	3,046	345
25	8,292	7,764	0	0	5,369	5,369	307
26	8,856	8,330	0	0	3,576	3,576	287
27	9,158	8,630	0	0	2,019	2,019	248
28	11,577	10,159	0	0	0	0	212
29	9,941	8,525	0	0	3,103	3,103	207
30	10,423	9,015	0	0	-29	-29	201
31	11,616	10,196	0	0	1,981	1,981	233
Total	303,266	269,599	0	0	101,751	101,751	9,891

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

**Table 17. Consolidated State-Federal Los Banos Reservoir**

Daily Operations  
October 2011

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Capacity 34,560 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Sep 30	325.52	19,520					
1	325.50	19,511	-9	0	0	0	-9
2	325.48	19,502	-9	0	0	0	-9
3	325.46	19,493	-9	0	0	0	-9
4	325.43	19,479	-14	0	0	1	-13
5	325.44	19,484	5	3	0	0	-1
6	325.44	19,484	0	0	0	0	0
7	325.43	19,479	-5	0	0	0	-5
8	325.43	19,479	0	0	0	0	0
9	325.42	19,475	-4	0	0	0	-4
10	325.41	19,470	-5	0	0	0	-5
11	325.40	19,465	-5	0	0	0	-5
12	325.39	19,461	-4	0	0	0	-4
13	325.38	19,456	-5	0	0	0	-5
14	325.38	19,456	0	0	0	0	0
15	325.37	19,452	-4	0	0	0	-4
16	325.35	19,443	-9	0	0	0	-9
17	325.34	19,438	-5	0	0	0	-5
18	325.33	19,434	-4	0	0	0	-4
19	325.31	19,425	-9	0	0	0	-9
20	325.30	19,420	-5	0	0	0	-5
21	325.29	19,415	-5	0	0	0	-5
22	325.28	19,411	-4	0	0	0	-4
23	325.27	19,406	-5	0	0	0	-5
24	325.24	19,393	-13	0	0	0	-13
25	325.23	19,388	-5	0	0	0	-5
26	325.20	19,374	-14	0	0	0	-14
27	325.19	19,370	-4	0	0	0	-4
28	325.17	19,361	-9	0	0	0	-9
29	325.17	19,361	0	0	0	0	0
30	325.16	19,356	-5	0	0	0	-5
31	325.14	19,347	-9	0	0	0	-9
Total			-173	3	0	1	-178
Mean cfs			---	0	0	0	---
Acre-feet			-173	6	0	1	-178

**Table 18. Consolidated State-Federal Little Panoche Reservoir**

Daily Operations

October 2011

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 5,580 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Sep 30	602.20	803					
1	Not Observed						
2	Not Observed						
3	Not Observed						
4	Not Observed						
5	602.20	803	0	0	0	0	0
6	Not Observed						
7	Not Observed						
8	Not Observed						
9	Not Observed						
10	Not Observed						
11	Not Observed						
12	Not Observed						
13	Not Observed						
14	Not Observed						
15	Not Observed						
16	Not Observed						
17	Not Observed						
18	Not Observed						
19	Not Observed						
20	Not Observed						
21	Not Observed						
22	Not Observed						
23	Not Observed						
24	Not Observed						
25	Not Observed						
26	Not Observed						
27	Not Observed						
28	Not Observed						
29	602.20	803	0	0	0	0	0
30	Not Observed						
31	Not Observed						
Total			0	0	0	0	0
Mean cfs			---	0	0	0	---
Acre-feet			0	0	0	0	0

**Table 19. Governor Edmund G. Brown California Aqueduct**

San Luis Field Division, Monthly Deliveries

(In acre-feet)

**October 2011**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		Mile			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure									
2B	12	Check No. 12	66.71		361,333						
3A		San Luis Reservoir		Department of Parks and Recreation	3	9,084	807	2	1		
				San Felipe Division Santa Clara Water District	9,084						
				Casa de Fruta Santa Clara Water District	0						
				San Felipe Division San Benito Water District	807						
				Reach 3A Subtotal:	9,894						
3	13	O'Neill Forebay	70.85	Department of Parks and Recreation	6	9,891	0	2	1		
				Cattle Program	0						
				Department of Fish & Game	85						
		Thru	70.91	San Luis Water District	457	457	0	3	3		
			85.08	(Floodwater Inflow)	0						
				Reach 3 Subtotal:	548	457	0	50	41		
		Dos Amigos Pumping Plant	86.73		303,266						
4	14		89.03	San Luis Water District	2,827	2,827	177	44	97		
			Thru 94.06								
			89.66	Pacheco Water District	177						
			Thru 89.67								
			89.68	Panoche Water District	44						
		Check No. 14	89.70	City of Dos Palos	97	280	999	3,071	7,495		
			95.06								
			98.15	San Luis Water District	280						
			Thru 104.20								
			96.15	Panoche Water District	999						
	15		102.64	(Floodwater Inflow)	0	999	0	0	0		
			102.64	Broadview Water District	0						
			105.22	Westlands Water District	3,071						
			Thru 108.64								
			108.50								
				Reach 4 Subtotal:	7,495	7,495	0	0	0		
				San Felipe Division Total:	9,891						
				Pacheco Water District Total:	177						
				Broadview Water District Total:	0						
				City of Dos Palos Total:	97						
				SLWD Reach 4 Subtotal:	3,107	3,107	0	0	0		
				Panoche Water District Total:	1,043						
				SLWD Total:	3,564						
				Westlands WD Reach 4 Subtotal:	3,071						

**Table 19. Governor Edmund G. Brown California Aqueduct**

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

October 2011

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
		Beginning and Ending				USBR	Transfer	DWR Recreation	USBR Recreation			
	No.	Structure	Mile									
5	16			(Reverse flow, Kings River)	0	6,326						
				110.52	Westlands Water District	6,326						
				Thru	Dept. of Fish and Game @ Lat. 4L	0						
				122.05	Dept. of Fish and Game @ Lat. 6L	0						
					Dept. of Fish and Game @ Lat. 7L	0						
			Check No. 16	122.07								
	17			124.18	Westlands Water District	4,514	4,514					
				Thru 132.74								
	Check No. 17			132.95								
	18			133.81	Westlands Water District	6,033	6,033					
				Thru 142.61								
				Pleasant Valley Pumping Plant	Westlands Water District	5,947	5,947					
				143.16	City of Coalinga	483	483					
				Check No. 18	143.23							
					Reach 5 Subtotal:	23,303	23,303	0	0			
6	19			145.26	GWF Energy	0	2	1/ 211				
					City of Huron	2						
					DWR Water Truck @22R	0						
					Kings County to Lemoore NAS Through WWD	211						
					Kings County through WWD 30L	0						
					Westlands Water District	5,471						
				Check No. 19	155.64							
					Reach 6 Subtotal:	5,684	5,473	211	0			
7	20			156.34	City of Huron	82	82					
				156.40	SWP Construction @ Lat. 24R	0						
				Thru	Kings County through WWD 31L, 32L, 33L, 34L, 35L, 36L	0						
				163.69	Westlands Water District	4,209						
	Check No. 20			Check No. 20	164.69							
	21			164.79	City of Avenal	233	233					
				167.04	Westlands Water District	1,833						
				Thru 171.67								
				Check No. 21	172.40	259,200						
					Reach 7 Total:	6,357	6,357	0	0			
					SWP Construction Total:	0	0	0	0			
					Westlands WD Total:	37,404	37,404	0	0			
					City of Coalinga Total:	483	483	0	0			
					City of Huron Total:	84	84	0	0			
					Kings County to Lemoore NAS Through WWD	211	0	211	0			
					City of Avenal Total:	233	233	0	0			
					Total San Luis Field Division Deliveries:	53,281	52,976	211	52			
									42			

1/ From County of Kings to Westlands Water District.

**Table 20. Consolidated State-Federal San Luis Canal 1/**

Daily Operations  
October 2011

United States  
Department of the Interior  
Bureau of Reclamation  
Central Valley Project

State of California  
The Resources Agency  
Department of Water Resources  
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project	Dos Amigos Pumping Plant	San Luis Water District Pools 14 & 15 2/	Panoche Water District Pools 14 & 15	Westlands Water District Pools 15 thru 21 3/	Flow Past Check 21	
Sep 30	29,031								
1	28,751	-280	0	7,073	52	20	581	6,328	-233
2	28,796	45	0	6,443	52	20	581	5,666	-101
3	29,065	269	0	5,367	52	20	581	4,513	-65
4	29,217	152	0	5,678	52	20	581	4,689	-259
5	29,132	-85	0	4,581	53	20	581	4,112	142
6	29,521	389	0	4,563	53	14	546	3,769	15
7	29,366	-155	0	5,089	51	14	546	4,477	-79
8	29,388	22	0	5,155	51	15	546	4,463	-69
9	29,575	187	0	4,466	51	15	546	3,633	-127
10	29,763	188	0	4,593	51	15	546	4,116	230
11	28,842	-921	0	4,016	51	15	546	4,044	176
12	29,201	359	0	4,500	59	15	632	3,653	40
13	27,932	-1,269	0	3,906	59	15	632	3,873	34
14	28,543	611	0	4,437	59	15	632	3,296	-127
15	28,061	-482	0	5,063	59	15	632	4,659	59
16	28,227	166	0	5,215	59	15	632	4,527	102
17	28,429	202	0	4,103	59	15	632	3,420	125
18	28,607	178	0	4,225	59	15	632	3,287	-142
19	28,273	-334	0	4,212	59	15	632	3,634	-40
20	27,791	-482	0	4,163	57	19	675	3,534	-121
21	28,632	841	0	5,389	57	19	675	4,123	-91
22	28,108	-524	0	5,610	57	19	675	4,965	-158
23	28,462	354	0	5,956	57	19	675	5,017	-10
24	28,243	-219	0	3,870	57	19	675	3,282	52
25	28,011	-232	0	4,180	57	19	675	3,438	-108
26	28,380	369	0	4,465	57	19	675	3,316	-212
27	28,043	-337	0	4,617	52	17	681	3,903	-134
28	28,198	155	0	5,837	52	17	681	4,954	-54
29	28,578	380	0	5,012	54	17	681	4,039	-29
30	29,293	715	0	5,255	52	17	681	4,208	64
31	27,968	-1,325	0	5,856	53	17	681	5,737	-35
Total		-1,063	0	152,895	1,705	526	19,367	130,678	-1,155
Mean cfs		---	0	4,932	55	17	625	4,215	-37
Acre-feet		-1,063	0	303,266	3,381	1,043	38,415	259,200	-2,290

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 177 AF to Pacheco W.D., 97 AF to the City of Dos Palos and 3,107 AF to San Luis Water District.

3/ Includes 82 AF to the City of Huron, 233 AF to the City of Avenal, 483 AF to the City of Coalinga, 2 AF to Huron P&R @ 22R, 211 AF to Lemoore N.A.S. @ 29L, 0 AF GWF @ 30L, 0 AF to DWR Water Truck at 22R, 0 AF Kings County @ 30L, 0 AF Broadview WD @ 3L, 0 AF DFG @ 4L, 0 AF Pilibus Wildlife @4L, 0 AF Mendota Water Fowl Habitat Area @ 6L, 0 AF DFG @ 7L, 0 AF Non-Project Water, 31,457 AF to Westlands Water District and 5,947 AF to Pleasant Valley Pumping Plant.

**Table 21. San Joaquin Field Division Plant Data**

(in acre-feet)

October 2011

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	378	411	94	84	95	6,955	6,692	6,435	6,400
2	352	402	58	54	59	6,580	6,611	6,304	6,239
3	391	405	96	88	98	4,494	4,470	4,198	4,022
4	383	409	56	49	55	4,446	4,082	3,859	3,860
5	266	282	66	60	67	3,866	3,595	3,318	3,257
6	206	211	51	45	52	3,718	3,277	2,989	3,022
7	150	144	56	50	57	4,076	3,985	3,651	3,553
8	139	135	35	31	36	4,764	4,702	4,480	4,436
9	220	242	83	58	64	5,049	4,794	4,696	4,542
10	236	217	58	51	58	4,788	4,741	4,589	4,436
11	247	277	66	60	67	5,420	5,322	5,243	5,065
12	192	206	68	61	69	4,762	4,497	4,224	4,135
13	273	228	93	81	93	4,170	3,847	3,495	3,405
14	285	272	83	76	86	4,461	4,382	4,048	3,842
15	262	225	88	76	86	6,459	6,100	5,759	5,694
16	246	258	82	73	82	7,222	7,026	6,764	6,762
17	263	283	69	62	70	3,739	3,515	3,297	3,175
18	257	263	69	62	71	4,042	3,494	3,155	3,186
19	311	363	110	100	109	4,304	3,909	3,650	3,705
20	297	316	73	67	76	4,517	3,968	3,676	3,734
21	308	340	84	76	75	4,929	4,560	4,298	4,392
22	353	399	70	63	71	6,766	6,318	6,052	5,922
23	356	377	60	74	85	7,180	7,318	7,023	6,979
24	465	484	64	58	66	3,491	3,247	2,974	2,852
25	512	514	67	60	67	2,817	2,469	2,273	2,385
26	449	448	84	75	85	3,433	3,274	3,041	3,006
27	539	504	77	70	77	3,774	3,132	2,780	2,812
28	508	487	73	66	74	4,450	4,107	3,884	3,783
29	422	437	59	52	59	3,721	3,618	3,470	3,455
30	360	375	63	57	66	3,357	3,337	3,198	3,235
31	301	310	74	69	76	6,419	6,040	5,743	5,745
Total	9,927	10,224	2,229	2,008	2,251	148,169	140,429	132,566	131,036

**Table 22. Governor Edmund G. Brown California Aqueduct**  
San Joaquin Field Division, Monthly Deliveries

**October 2011**

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	USBR	Article 56C	Pool A / Pool B	Other	
	No.	Structure	Mile								
7	21	Check No. 21	172.40		259,200						
8C	22		172.66	Empire West Side ID TL - A	0	1,471					
				County of Kings TL - A	0						
				Tulare Lake Basin WSD TL-A	1,471						
			175.18	Dudley Ridge WD - 1	0						
			177.54	Dudley Ridge WD - 1B	39		39				
			180.64	Tulare Lake Basin WSD - C	0		240				
			180.65	Dudley Ridge WD - 1A	240		401				
			182.99	Dudley Ridge WD - 2	401		393				
			183.00	Tulare Lake Basin WSD TL - B	393						
				County of Kings TL-B	0						
31A	8D		184.00	Dudley Ridge WD - Paramount	2	2					
			184.63	Coastal Branch	9,927		230				
8D			184.78	Dudley Ridge WD - 3	230	912	0	0	0	0	
				Dudley Ridge Reach 8D Total:	912		1,864	0	0	0	
9	23			Tulare Lake Basin WSD Total:	1,864						
			Check No. 22	184.82							
				189.69	Kern County Water Agency	2,917					
				Lost Hills Water Dist. - 1	2,917						
				191.18	Kern County Water Agency		579				
				Lost Hills Water Dist. - 2	579						
				194.22	Kern County Water Agency		382				
				Lost Hills Water Dist. - 3	382						
10A	24		196.40	Kern County Water Agency	177	986					
			Berrenda Mesa - 2								
			196.75	Kern County Water Agency	986						
			Lost Hills Water Dist. - 4								
				KCWA Reach 9 Subtotal:	5,041		0	0	0		
10A	25		Check No. 23	197.05							
				201.24	Kern County Water Agency	680					
				Lost Hills Water Dist. - 7	680						
				202.05	Kern County Water Agency		786				
				Lost Hills Water Dist. - 5	786						
			204.69	Kern County Water Agency	0	3					
				Lost Hills Water Dist. - 6							
				Kern County Water Agency							
			205.26	Lost Hills Water Dist. - 8	3						
			Check No. 24	207.94							
				209.71	Kern County Water Agency	395					
				Belridge Water Storage Dist. - 1A	395						
				Kern National Wildlife Refuge	4,948						
				USBR BV-1B							
				Kern County Water Agency	232	19,260					
				Buena Vista WSD 1B							
			209.80	KCWA Semitropic WSD	19,260						
				KCWA Semitropic WSD Penstocks	0						
				USBR Total:	4,948	21,356	0	4,948	0	0	
				KCWA Reach 10A Subtotal:	21,356		0	0	0	0	

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

**October 2011**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A	USBR	Article 56C	Pool A / Pool B			
	No.	Structure	Mile							Other		
11B	25		210.75	Kern County Water Agency Belridge - 2	0	121	6,805	90				
			214.11	Kern County Water Agency Belridge - 3	121							
			216.62	Kern County Water Agency Belridge - 4	0							
			217.13	Kern County Water Agency Belridge - 5A-C	6,805							
				Kern County Water Agency Belridge - 5D	90							
		Check No. 25	217.79									
				KCWA Reach 11B Subtotal:	7,016	7,016	0	0	0	0		
12D	26		219.58	Kern County Water Agency Belridge - 6	0	72						
				Kern County Water Agency West Kern - 3	72							
		Check No. 26	224.92									
	27	Check No. 27	230.37	Kern County Water Agency Buena Vista - 6	0	3,307	15,132			2/ 11,211		
12E	28		231.73									
			235.75	Kern County Water Agency Buena Vista - 2	3,307							
				Kern County WA CVC	26,343							
				DRWD CVC	0							
				Tulare Co.	0							
			238.04	Lower Tule River	0							
				Fresno Co.	0							
				Pixley ID	0							
				Hacienda DWR Wells	0							
		Check No. 28	238.11									
				1/ Arvin Edison Total:	0	0	0	0	0	0		
				Reach 12E Subtotal:	29,650	18,439	0	0	0	11,211		
13B	29		238.19	Kern Water Bank Inflow	0	20,815				3/ 6,147		
				Kern Water Bank Outflow	26,962							
			241.02	Kern River Intertie (inflow)	0							
			242.85	KCWA Buena Vista WSD - 7	0							
				KCWA Buena Vista WSD - 5	0							
			243.09	Kern County Water Agency Buena Vista - 3	0							
			Check No. 29	244.54								
				249.85	Kern County Water Agency Buena Vista - 4	0						
			Buena Vista Pumping Plant	250.99		148,169						
				KCWA Reach 13B Subtotal:	26,962	20,815	0	0	0	6,147		
14A	31		254.47	Kern County Water Agency West Kern - 2	0	354						
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	354							

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

2/ Includes 9,013 Af from MWD delivered to Arvin-Edison WSD for storage and 2,198 AF from MWD delivered to Kern Delta WD for storage.

3/ Includes 3,000 AF from DRWD sent to KWB for storage, 247 AF from Santa Barbara County FC&WCD exchanged to KCWA, and 2,900 AF from Santa Barbara County FC&WCD exchanged to DRWD.

**Table 22. Governor Edmund G. Brown California Aqueduct**

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

October 2011

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending		No.	Structure	Mile	Table A	USBR	Article 56C	Pool A / Pool B	Other
	No.	Structure								
14A	31	Check No. 31	256.14			489	1,362	0	0	0
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3	489					
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4	1,362					
		Check No. 32	261.72							
				KCWA Reach 14A Subtotal:	2,205	2,205	0	0	0	0
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	2,819	428	1,631	0	0	0
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	428					
		Check No. 33	267.36							
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	1,631	1,631	4,878	0	0	0
		Check No. 34	271.27							
				Reach 14B Total:	4,878	4,878	0	0	0	0
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	860	726	1,586	0	0	1/ 5,889
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	726					
			277.30	Kern County Water Agency Arvin-Edison WSD	5,889					
				Reach 14C Total:	7,475					
	Teerink Pumping Plant	278.13			140,429					
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	111	2,341	2,452	0	0	0
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	2,341					
				Reach 15A Total:	2,452					
	Chrismen Pumping Plant	280.36			132,566					
	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0	29	58	0	0	0
		Check No. 37	283.95							
16A	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	29	29	799	0	0	0
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	0					
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0					
		Check No. 38	287.09							
			287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	58					
	39	Check No. 39	290.21			133	1,019	0	0	0
			291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	799					
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	133					
				Kern County Water Agency Tehachapi Cummings CWD	0					
				KCWA Reach 16A Subtotal:	1,019					
17E	Edmonston Pumping Plant	293.45			131,036					

1/ MWD water sent to Arvin Edison WSD for storage.

**Table 23. Governor Edmund G. Brown California Aqueduct**  
 San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

**October 2011**

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Table A	USBR	Article 56C	Pool A / Pool B	Other	
	No.	Structure	Mile								
31A	C-1	Coastal Branch Control	0.02		9,927	1,154	373	6,089	0		
		Las Perillas Pumping Plant	1.16		9,927						
	C-2		3.79	Green Valley Water District	0						
		Badger Hill Pumping Plant	4.27		10,224						
	C-3	Coastal Check No. 3	7.21								
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	1,154						
		Coastal Check No. 4	9.34								
	C-5	Coastal Check No. 5	12.20								
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	373						
			14.83	Kern County Water Agency Berrenda Mesa - 1	6,089						
				Kern County Water Agency Berrenda Mesa - PO	0						
		Devil's Den Pumping Plant	14.86		2,229						
				KCWA Reach 31A Subtotal:	6,462	6,462	0	0	0	0	
				KCWA Total:	114,588	91,341	0	0	0	23,247	
33A	C-7	Bluestone Pumping Plant	19.05		2,008	1,865	320	0	0		
	C-8	Polonio Pass Pumping Plant	26.54		2,251						
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant	0						
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	1,865						
		Tank Site 2	58.63	Central Coast:	0						
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	320						
		Energy Dissipater	78.12								
	Lopez T.O.		85.86	SLOCFC & WCD	0	2,185	0	0	0	0	
35	C-12			CCWA Total:	2,185						
		Guadalupe T.O.	102.70	SBCFC & WCD	0						
		Santa Maria T.O.	107.43	SBCFC & WCD	0						
	Tank Site 5	So. Cal. Water T.O.	109.20	SBCFC & WCD	0						
38				SBCFC & WCD Total:	0	0	0	0	0	0	
		Tank Site 5	115.42								

**Table 24. Southern Field Division Plant Data**

(in acre-feet)

October 2011

Date	West Branch						East Branch								East Branch Extension		
	Oso Pumping Plant	Warne Powerplant			Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Green Spot	Crafton Hills	Cherry Valley
		Generation	Leakage	Gorman Crk. Improvement Channel	Generation 1/	Pumpback 1/	Generation	Bypass Through Plant	Tehachapi Afterbay Bypass		Generation	Leakage	Bypass Flume				
1	1,913	1,444	0	0	459	0	3,079	0	1,188	4,175	3,843	0	0	2,911	90	83	31
2	1,488	1,449	0	0	273	983	2,996	0	1,199	4,175	3,871	0	0	2,788	68	71	31
3	739	307	0	0	1,077	741	2,675	0	434	2,920	3,111	0	0	2,810	59	62	32
4	0	0	0	0	450	1,120	2,867	0	909	3,521	3,423	0	0	2,725	51	54	32
5	0	0	0	0	733	817	2,562	0	240	2,870	2,761	0	0	2,587	42	44	32
6	0	0	0	0	390	0	2,703	0	99	2,826	2,625	0	0	2,581	52	53	31
7	391	434	0	0	2,711	0	2,857	0	322	2,688	2,606	0	0	2,434	60	61	31
8	1,325	1,436	0	0	536	1,130	2,801	0	240	2,826	2,527	0	0	2,565	63	61	31
9	1,480	1,394	0	0	210	1,524	2,863	0	62	2,688	2,686	0	0	2,575	66	61	31
10	1,481	1,391	0	0	1,134	0	2,728	0	165	2,691	2,583	0	0	2,588	66	61	31
11	1,969	1,414	0	0	2,901	0	2,911	0	380	2,745	487	0	1,863	2,421	78	73	31
12	944	1,439	0	0	2,983	779	2,717	0	363	2,887	769	0	2,114	2,715	84	84	31
13	0	1,258	0	0	2,827	778	2,672	0	516	2,996	2,853	0	0	2,617	82	84	31
14	663	1,234	0	0	2,924	827	2,756	0	401	3,027	2,884	0	0	2,602	81	84	31
15	2,133	1,421	0	0	288	0	2,889	0	516	3,089	3,014	0	0	2,376	81	84	31
16	3,046	1,266	0	0	739	1,393	2,773	0	636	3,156	3,045	0	0	2,511	80	84	31
17	527	318	0	744	2,343	971	2,569	0	174	2,297	2,359	0	0	2,640	88	84	31
18	0	0	0	1,190	1,759	0	2,835	0	331	2,936	2,195	0	0	2,937	86	84	31
19	0	0	0	1,050	1,392	632	2,833	0	496	3,163	3,094	0	0	2,875	79	83	31
20	0	0	0	711	2,231	887	2,712	0	595	2,934	2,964	0	0	2,535	77	81	31
21	65	0	0	595	2,210	0	2,764	0	632	3,118	2,825	0	0	2,329	79	83	32
22	2,653	0	0	1,116	298	0	2,851	0	545	3,395	3,066	0	0	2,753	79	83	32
23	2,822	0	0	1,190	305	0	2,948	0	1,322	3,971	3,629	0	0	2,730	79	83	32
24	1,423	620	0	1,190	980	0	984	0	58	969	899	0	0	2,595	78	82	31
25	2,074	1,451	0	992	2,740	925	0	0	256	0	0	22	0	2,393	78	82	31
26	2,590	1,454	0	992	2,518	974	18	0	149	0	0	21	0	2,470	79	81	31
27	2,652	1,443	0	992	2,968	77	201	0	0	0	0	21	0	2,393	80	82	31
28	2,531	1,441	0	496	2,445	0	959	0	66	296	401	0	0	2,343	78	81	31
29	1,217	1,440	0	0	297	1,145	2,021	0	331	2,521	2,091	0	0	2,310	84	82	31
30	1,062	1,442	0	0	1,848	719	2,122	0	298	2,492	2,713	0	0	2,322	89	83	31
31	1,603	1,443	0	0	1,849	987	2,777	0	744	3,154	2,779	0	0	2,361	90	84	31
Total	38,791	26,939	0	11,258	46,818	17,409	73,443	0	13,667	80,526	72,103	64	3,977	79,792	2,326	2,342	967

1/ Values supplied by LADWP, not verified by DWR.

**Table 25. Pyramid Lake**  
Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

**October 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow				Outflow				Computed Losses (-) And Gains (+)	
				Project			Natural	Project		To Piru Creek			
				Castaic Powerplant Pumpback 1/	Warne Power-plant	Gorman Creek Improv. Channel	Stream Flow	Castaic Powerplant Generation 1/	Recrea-tion Deliveries	Natural	Del. To United W.A.		
Sep 30	2573.49	164,144											
1	2574.27	165,130	986	0	1,444	0	12	459	0	10	0	-1	
2	2575.96	167,281	2,151	983	1,449	0	12	273	0	10	0	-10	
3	2575.79	167,064	-217	741	307	0	13	1,077	0	10	0	-191	
4	2576.37	167,805	741	1,120	0	0	15	450	0	10	0	66	
5	2576.19	167,575	-230	817	0	0	19	733	0	10	0	-323	
6	2575.88	167,179	-396	0	0	0	19	390	0	10	0	-15	
7	2573.00	163,526	-3,653	0	434	0	18	2,711	0	10	0	-1,384	
8	2575.43	166,604	3,078	1,130	1,436	0	18	536	0	10	0	1,040	
9	2577.58	169,360	2,756	1,524	1,394	0	17	210	0	10	0	41	
10	2577.79	169,630	270	0	1,391	0	17	1,134	0	10	0	6	
11	2576.62	168,126	-1,504	0	1,414	0	16	2,901	0	10	0	-23	
12	2575.63	166,859	-1,267	779	1,439	0	15	2,983	0	10	0	-507	
13	2574.75	165,739	-1,120	778	1,258	0	14	2,827	0	10	0	-333	
14	2573.92	164,687	-1,052	827	1,234	0	14	2,924	0	10	0	-193	
15	2574.82	165,828	1,141	0	1,421	0	14	288	0	10	0	4	
16	2576.40	167,844	2,016	1,393	1,266	0	14	739	0	10	0	92	
17	2575.84	167,127	-717	971	318	744	14	2,343	0	10	0	-411	
18	2575.16	166,260	-867	0	0	1,190	14	1,759	0	10	0	-302	
19	2574.64	165,599	-661	632	0	1,050	14	1,392	0	10	0	-955	
20	2574.07	164,877	-722	887	0	711	14	2,231	0	10	0	-93	
21	2573.01	163,539	-1,338	0	0	595	14	2,210	0	10	0	273	
22	2574.20	165,042	1,503	0	0	1,116	14	298	0	10	0	681	
23	2574.71	165,688	646	0	0	1,190	15	305	0	10	0	-244	
24	2574.77	165,765	77	0	620	1,190	15	980	0	10	0	-758	
25	2574.53	165,460	-305	925	1,451	992	16	2,740	0	10	0	-939	
26	2575.05	166,120	660	974	1,454	992	16	2,518	0	10	0	-248	
27	2574.51	165,435	-685	77	1,443	992	16	2,968	0	10	0	-235	
28	2573.87	164,624	-811	0	1,441	496	17	2,445	0	10	0	-310	
29	2575.85	167,140	2,516	1,145	1,440	0	17	297	0	11	0	222	
30	2576.01	167,345	205	719	1,442	0	18	1,848	0	11	0	-115	
31	2576.51	167,985	640	987	1,443	0	18	1,849	0	11	0	52	
Total				3,841	17,409	26,939	11,258	479	46,818	0	313	0	-5,113

1/ Values supplied by LADWP, not verified by DWR.

**Table 26. Elderberry Forebay**

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

**October 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Castaic Powerplant Pumpback 1/	Outflow		Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural		To Castaic Lake			
				Natural	Project 1/		Natural	Project		
Sep 30	1511.44	19,743								
1	1512.61	20,202	459	459	0	0	0	0	0	
2	1511.28	19,680	-522	273	0	983	0	0	188	
3	1512.27	20,068	388	1,077	0	741	0	0	52	
4	1510.71	19,458	-610	450	0	1,120	0	0	60	
5	1503.88	16,903	-2,555	733	0	817	0	2,419	-52	
6	1505.11	17,350	447	390	0	0	0	0	57	
7	1512.40	20,119	2,769	2,711	0	0	0	0	58	
8	1511.04	19,587	-532	536	0	1,130	0	0	62	
9	1507.73	18,321	-1,266	210	0	1,524	0	0	48	
10	1510.84	19,509	1,188	1,134	0	0	0	0	54	
11	1515.23	21,254	1,745	2,901	0	0	0	1,157	1	
12	1511.43	19,739	-1,515	2,983	0	779	0	3,773	54	
13	1509.41	18,958	-781	2,827	0	778	0	2,836	6	
14	1511.43	19,739	781	2,924	0	827	0	1,306	-10	
15	1512.36	20,104	365	288	0	0	0	0	77	
16	1510.90	19,532	-572	739	0	1,393	0	0	82	
17	1514.56	20,982	1,450	2,343	0	971	0	0	78	
18	1519.03	22,829	1,847	1,759	0	0	0	0	88	
19	1515.97	21,556	-1,273	1,392	0	632	0	2,026	-7	
20	1514.01	20,760	-796	2,231	0	887	0	2,139	-1	
21	1514.45	20,938	178	2,210	0	0	0	2,028	-4	
22	1515.16	21,225	287	298	0	0	0	0	-11	
23	1516.13	21,621	396	305	0	0	0	0	91	
24	1518.48	22,597	976	980	0	0	0	0	-4	
25	1516.43	21,745	-852	2,740	0	925	0	2,751	84	
26	1505.77	17,592	-4,153	2,518	0	974	0	5,614	-83	
27	1507.72	18,317	725	2,968	0	77	0	1,787	-379	
28	1514.63	21,010	2,693	2,445	0	0	0	130	378	
29	1507.47	18,224	-2,786	297	0	1,145	0	1,939	1	
30	1510.70	19,455	1,231	1,848	0	719	0	0	102	
31	1512.71	20,242	787	1,849	0	987	0	0	-75	
Total				499	46,818	0	17,409	0	29,905	
									995	

1/ Values supplied by LADWP, not verified by DWR.

**Table 27. Castaic Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

**October 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay 1/		Natural	Deliveries	Released To Castaic Lagoon		
				Natural	Project					
Sep 30	1496.58	284,056								
1	1495.78	282,403	-1,653	0	0	0	1,599	0	-54	
2	1495.02	280,838	-1,565	0	0	0	1,612	0	47	
3	1494.21	279,175	-1,663	0	0	0	1,654	0	-9	
4	1493.38	277,478	-1,697	0	0	0	1,708	0	11	
5	1493.62	277,968	490	0	2,419	3	1,331	0	-601	
6	1493.90	278,541	573	0	0	2	1,063	0	1,634	
7	1493.25	277,213	-1,328	0	0	1	1,011	0	-318	
8	1492.74	276,173	-1,040	0	0	0	1,053	0	13	
9	1492.18	275,035	-1,138	0	0	0	1,092	0	-46	
10	1491.57	273,798	-1,237	0	0	0	1,260	0	23	
11	1491.53	273,717	-81	0	1,157	1	1,314	0	75	
12	1492.81	276,316	2,599	0	3,773	1	1,257	0	82	
13	1493.45	277,621	1,305	0	2,836	1	1,477	0	-55	
14	1493.46	277,641	20	0	1,306	0	1,336	0	50	
15	1492.86	276,418	-1,223	0	0	0	1,269	0	46	
16	1492.26	275,197	-1,221	0	0	0	1,185	0	-36	
17	1491.61	273,879	-1,318	0	0	0	1,340	0	22	
18	1490.98	272,605	-1,274	0	0	0	1,274	0	0	
19	1491.45	273,555	950	0	2,026	0	1,214	0	138	
20	1491.90	274,467	912	0	2,139	1	1,128	0	-100	
21	1492.42	275,523	1,056	0	2,028	1	1,104	0	131	
22	1491.90	274,467	-1,056	0	0	1	1,022	0	-35	
23	1491.42	273,494	-973	0	0	1	1,005	0	31	
24	1490.86	272,362	-1,132	0	0	1	1,107	0	-26	
25	1491.85	274,365	2,003	0	2,751	1	921	0	172	
26	1494.17	279,093	4,728	0	5,614	2	781	0	-107	
27	1494.58	279,934	841	0	1,787	2	871	0	-77	
28	1494.25	279,257	-677	0	130	2	970	0	161	
29	1494.74	280,262	1,005	0	1,939	2	885	0	-51	
30	1494.26	279,278	-984	0	0	1	932	0	-53	
31	1493.78	278,295	-983	0	0	1	954	0	-30	
<b>Total</b>			<b>-5,761</b>	<b>0</b>	<b>29,905</b>	<b>25</b>	<b>36,729</b>	<b>0</b>	<b>1,038</b>	

1/ Values supplied by LADWP, not verified by DWR.

**Table 28. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

October 2011

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.			Table A	Rec.	Pool A	Local	Article 56C	Other	
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		38,791							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved							
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
29G		Warne Power Plant	14.07	(11,258 AF of flow through Gorman Creek Imp. Channel)	26,939							
29H	W3	Pyramid Lake		USFS								
				Pyramid Recreation (T300)	0							
				United WA (T300)	0							
		Pyramid Dam	17.10	California State Park								
29J	W4	Castaic Power Plant	25.82	Piru Fish (T300)	0							
		Elderberry Forebay		(17,409 AF pumpback ) 2/	46,818							
		Forebay Dam	28.12									
30 1/	W5	Castaic Lake		California State Park								
				Castaic Lake Recreation (T301)	8							
		Castaic Dam	31.47									
				MWDSC 78" & 132" (T302)	34,121							
				Castaic Lake WA 18", 24" & 54" (T303)	704							
		Castaic Lake Outlet		Castaic Lake WA Rio Vista T.P. (T304)	1,742							
				MWD-Ventura Co. WPD (T302)	154							
				Releases to Lagoon	0							
				Reach 30 Subtotal:	36,729							
	W6	Castaic Lagoon		California State Park Recreation to Lagoon (T353)	0							
		Castaic Lagoon Outlet	31.9		758							

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value Supplied by LADWP, not verified by DWR.

**Table 29. Silverwood Lake**

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

**October 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Project			Del. To Mojave W.A.	Natural To Mojave River			
Sep 30	3350.59	70,733												
1	3351.34	71,444	711	3,843	0	1	3	0	2,911	0	202	-17	0	
2	3352.24	72,302	858	3,871	0	1	3	0	2,788	0	202	-21	0	
3	3352.21	72,274	-28	3,111	0	1	2	1	2,810	0	202	-125	0	
4	3352.78	72,820	546	3,423	0	2	3	0	2,725	0	202	51	0	
5	3352.89	72,926	106	2,761	0	38	3	0	2,587	0	202	99	0	
6	3352.83	72,868	-58	2,625	0	12	3	0	2,581	0	202	91	0	
7	3352.69	72,734	-134	2,606	0	7	3	1	2,434	0	202	-107	0	
8	3352.47	72,523	-211	2,527	0	4	3	0	2,565	0	202	28	0	
9	3352.41	72,465	-58	2,686	0	4	3	0	2,575	0	202	32	0	
10	3352.07	72,140	-325	2,583	0	4	3	0	2,588	0	202	-119	0	
11	3351.82	71,901	-239	487	1,863	3	2	1	2,421	0	167	-1	0	
12	3351.71	71,796	-105	769	2,114	3	3	0	2,715	0	153	-120	0	
13	3351.88	71,958	162	2,853	0	3	3	0	2,617	0	153	79	0	
14	3352.05	72,121	163	2,884	0	3	3	0	2,602	0	153	34	0	
15	3352.38	72,436	315	3,014	0	3	3	1	2,376	0	153	-169	0	
16	3352.66	72,705	269	3,045	0	3	5	0	2,511	0	153	-110	0	
17	3352.24	72,302	-403	2,359	0	3	5	0	2,640	0	153	33	0	
18	3351.40	71,501	-801	2,195	0	3	4	1	2,937	0	153	96	0	
19	3351.40	71,501	0	3,094	0	3	5	0	2,875	0	153	-64	0	
20	3351.71	71,796	295	2,964	0	3	4	0	2,535	0	153	20	0	
21	3352.05	72,121	325	2,825	0	3	4	1	2,329	0	153	-16	0	
22	3352.16	72,226	105	3,066	0	3	4	0	2,753	0	153	-54	0	
23	3353.11	73,137	911	3,629	0	3	5	0	2,730	0	153	167	0	
24	3351.20	71,311	-1,826	899	0	3	5	0	2,595	0	61	-67	0	
25	3348.68	68,940	-2,371	22	0	3	5	0	2,393	0	2	4	0	
26	3345.92	66,392	-2,548	21	0	4	5	1	2,470	0	2	-95	0	
27	3343.23	63,959	-2,433	21	0	4	4	0	2,393	0	1	-60	0	
28	3341.04	62,013	-1,946	401	0	4	3	0	2,343	0	1	-4	0	
29	3340.84	61,837	-176	2,091	0	3	2	0	2,310	0	1	43	0	
30	3341.35	62,287	450	2,713	0	3	2	0	2,322	0	1	59	0	
31	3341.82	62,703	416	2,779	0	3	1	1	2,361	0	60	57	0	
Total				-8,030	72,167	3,977	140	106	8	79,792	0	4,152	-256	0

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

**Table 30. Lake Perris**

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

**October 2011**

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Sep 30	1558.38	66,012				
1	1558.03	65,390	-622		104	
2	1558.10	65,514	124		307	
3	1558.02	65,372	-142		383	
4	1558.16	65,621	249		382	
5	1558.21	65,709	88		383	
6	1558.05	65,426	-283		383	
7	1558.10	65,514	88		383	
8	1558.10	65,514	0		382	
9	1558.10	65,514	0		383	
10	1558.16	65,621	107		383	
11	1558.08	65,479	-142		385	
12	1558.05	65,426	-53		382	
13	1558.02	65,372	-54		209	
14	1558.10	65,514	142		5	
15	1558.08	65,479	-35		5	
16	1558.21	65,709	230		5	
17	1558.13	65,567	-142		11	
18	1558.27	65,816	249		5	
19	1558.05	65,426	-390		5	
20	1558.32	65,905	479		5	
21	1558.30	65,869	-36		4	
22	1558.49	66,207	338		6	
23	1558.30	65,869	-338		216	
24	1558.52	66,261	392		11	
25	1558.65	66,493	232		5	
26	1558.76	66,689	196		5	
27	1558.82	66,797	108		5	
28	1559.07	67,245	448		5	
29	1558.93	66,994	-251		5	
30	1559.09	67,280	286		5	
31	1559.29	67,640	360		9	
Total		1,628	8,894	4,766	-2,500	

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

**Table 31. Governor Edmund G. Brown California Aqueduct**

Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

October 2011

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.			Table A	Rec.	Pool A	Local	Article 56C	Other	
	No.	Structure	Mile									
17E	40	Edmonston Pumping Plant	293.45		131,036							
	41		298.65	KCWA Tej.-Cas	Stub							
17F		Check No. 41	303.41									
18A	42		304.99	AVEK WA-Temp for TEA construction (T389)	0							
		Check No. 42	304.99									
	43	Alamo Powerplant	305.73	(Includes 73,443 AF generation, 0 AF plant bypass, and 13,667 AF Tehachapi Bypass)	87,110							
19	44		306.71	AVEK 305th Street West (T287)	895							
			308.05	AVEK 294th Street West (T267)	1							
		Check No. 43	309.70									
	45		311.84	LADWP Connection	0							
			313.50	AVEK 245th Street West (T269)	0							
	46	Check No. 44	314.81									
			314.93	AVEK 235th Street West (T270)	0							
	47		315.57	AVEK 225th Street West (T271)	0							
		Check No. 45	319.74									
20A	48		323.19	Antelope Valley-East Kern WA Fairmont (T272)	6,101							
				Mojave Water Agency Fairmont (T272)	127							
		Check No. 46	323.84									
				Reach 19 Total:	7,124							
	49	Check No. 47	326.77									
			326.91	Antelope Valley-East Kern WA Willow Springs (T273)	30							
	50		329.65	Antelope Valley-East Kern WA 120th Street West	Re- moved							
		Check No. 48	330.82									
20B	51	Check No. 49	335.93									
			336.73	Antelope Valley-East Kern WA Quartz Hill (T274)	2,871							
	52		339.68	Antelope Valley-East Kern WA Rancho Vista (T275)	30							
		Check No. 50	340.92	AVEK WA-Temp (T387)	0							
	53		341.51									
		Check No. 51	342.06	AVEK WA-Temp (T386)	0							
	54		342.07	Antelope Valley-East Kern WA 30th Street West (T414)	0							
		Check No. 52	343.74									
21	55		346.98	Palmdale WD (T276) Temp.	0							
		Check No. 53	348.14	Antelope Valley-East Kern WA Acton Treatment Plant (T277)	48							
	56		348.17									
		Check No. 54	349.52	Palmdale WD (T394)	0							
	57		350.25									
		Check No. 55	352.70									
	58		354.76	AVEK WA-Delivered through Littlerock Creek ID (T278)	0							
		Check No. 56	354.97	Palmdale WD (T276)	0							
22A	59		354.97	Palmdale WD (T391)	0							
		Check No. 57	356.93									
	60		357.60	AVEK 95th Street East (T279)	0							
		Check No. 58	357.72	AVEK 96th Street East (T280)	0							
			359.76	AVEK East Side Treatment Plant (T281)	193							

**Table 31. Governor Edmund G. Brown California Aqueduct**  
 Southern Field Division, Monthly Deliveries (East Branch, Continued)

October 2011

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending		No.	Structure	Mile	Table A	Rec.	Pool A	Local	Article 56C	Other	
	No.	Structure										
22B	58	Pearblossom Pumping Plant	360.61			80,526						2/ 1,116 2/ 4,168 1/ 0 2/ 4,143 3/ 21
	59	Check No. 59	366.09									
	60		366.50	AVEK Big Rock Siphon (T368)		0						
		Check No. 60	373.94									
	61	Check No. 61	379.00									
	62	Check No. 62	384.26									
	63		389.20	Mojave Water Agency White Road 24" & 42" (T282)		1,116						
	64	Check No. 64	395.10									
	65	Check No. 65	400.32									
	66		401.10	Mojave Water Agency Morongo 24" & 42" (T284)		4,168						
23		Check No. 66	403.41									1/ 0
		Mojave Siphon	405.58	Las Flores Ranch Exchange		0						
24		Mojave Siphon Powerplant	405.65			0						2/ 4,143 3/ 21
				MWA CS DAM (T288)		4,143						
		Silverwood Lake	407.65	California State Park Silverwood (T288)		8						
			407.70	Crestline-Lake Arrowhead WA State Project Water (T289)		106						
				Non-Project Water (T289)		0						
25		San Bernardino Intake Tunnel				79,792						
26A		Devil Canyon Powerplant	412.73			79,792						
		Devil Canyon Afterbay Control Structures		MWD-Rialto (T292)		0						8,106 24,697 2,357 5,849 4/ 6,258
				MWD-Rialto (T293)		8,106						
				MWD-Rialto (T294)		24,697						
				Desert Water Agency Transfer (T293)		2,357						
				Coachella Valley WD Transfer (T293)		5,849						
				MWD EBX-1 (T290)		0						
				MWD EBX-1 (T291)		0						
				East Branch Extension		6,258						
				MWD (T294)		0						
28G		Santa Ana Valley Pipeline	425.46									
28H				Desert Water Agency (T295)		1,448						1,448 3,592 6,068 13,854
				Coachella Valley WD (T296)		3,592						
				MWD-SC								
				Box Springs (T295)		6,068						
28J		Lake Perris	440.05	MWD-SC								
				Perris Bypass Pipeline (T296)		13,854						
				MWD-SC (T297)		152						
				MWD-SC 54" & 78" (T299)		4,585						
				Calif. State Park								
				Lake Perris Parks & Rec. (T298)		29						
				MWD Total:		91,583						

1/ Project water delivered from Mojave Siphon in exchange for like amount of natural stream flow.

2/ MWD provided SWP water supplies to MWA for groundwater storage in the Mojave River Basin.

3/ Transfer of SBVMWD's stored 2005 Table A water to Crestline Lake Arrowhead WA.

4/ Includes 2,539 AF to San Gabriel Valley MWD, 5,539 AF to San Bernardino Valley MWD, and 524 AF to San Gorgonio Pass WA.

**Table 32. Water Quality At Selected SWP Locations**

October 2011

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct					
					Banks Pumping Plant	O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	Devil Canyon Headworks
Alkalinity	mg/l as CaCO <sub>3</sub>	#REF!	97	54	54	55	60	61	63	62
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.002
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bromide	mg/l	<0.01	0.03	0.06	0.06	0.07	0.07	0.06	0.07	0.08
Calcium	mg/l	8	16	14	13	13	14	15	14	14
Chloride	mg/l as C	<1	17.0	26.0	19.0	21.0	23.0	22.0	22.0	24.0
Chromium	mg/l as C	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	mg/l	<0.001	0	0	0	0	0	0	0	0
Fluoride	mg/l	NR	NR	NR	NR	NR	NR	NR	NR	NR
Hardness	mg/l	33.000	93.000	65.000	59.000	59.000	66.000	68.000	67.000	64.000
Iron	mg/l	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<0.005
Lead	mg/l as CaCO <sub>3</sub>	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	3.000	13.000	8.000	7.000	7.000	7.000	8.000	8.000	7.000
Manganese	mg/l	<0.005	0.042	<0.005	0.018	0.007	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l	<0.01	0	0	0	0	0	0	0	0
Organic Carbon, Dissolved	mg/l	NR	2.400	1.600	1.500	1.300	1.300	1.400	1.100	1.200
Organic Carbon, Total	mg/l as N	NR	2.50	1.70	1.60	1.40	1.40	1.40	1.20	1.20
Phosphate-Ortho	mg/l as P	<0.01	0.10	0.07	0.04	0.06	0.06	NR	0.05	0.07
Phosphorus-Total	mg/l	<0.01	0.20	0.10	0.07	0.07	0.07	0.06	0.06	0.07
Selenium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sodium	mg/l	3	21	22	18	19	21	20	20	20
Specific Conductance	µS/cm	78	280	237	211	224	242	231	232	226
Sulfate	mg/l	2	16	13	14	17	18	16	17	17
Total Dissolved Solids	mg/l	48	159	134	118	127	136	127	128	125
Turbidity	NTU	2	36	6	5	3	2	2	1	2
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005

37

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

**Table 33. Water Quality At Selected Delta Stations**

October 2011

Date	Antioch Tides (feet above mean sea level)		Flow In CFS		Electrical Conductivity in millisiemens/cm								Cl in mg/l			
			Net Delta Outflow Index		Rio Vista	Antioch	Chipps Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal		
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average				md	md	md	14dm	md	14dm	md	md	
38	1	6.57	4.53	13,859	13,859	12,771	0.64	3.00	0.18	0.19	0.23	0.21	0.22	0.46	0.29	16
	2	6.29	4.35	14,692	14,275	13,433	0.56	2.37	0.18	0.19	0.22	0.21	0.22	0.46	0.29	16
	3	6.15	4.38	14,886	14,479	13,449	0.51	2.07	0.18	0.19	0.20	0.21	0.21	0.47	0.28	15
	4	5.95	4.29	14,614	14,513	16,033	0.47	1.89	0.16	0.19	0.19	0.21	0.21	0.55	0.28	15
	5	5.89	4.49	15,079	14,626	17,994	0.49	2.05	0.15	0.18	0.20	0.21	0.21	0.73	0.28	15
	6	5.48	4.05	19,607	15,456	19,372	0.42	1.34	0.14	0.18	0.19	0.21	0.21	0.74	0.28	15
	7	5.23	3.79	20,211	16,136	19,182	0.37	0.93	0.13	0.18	0.18	0.21	0.21	0.71	0.28	15
	8	5.30	3.80	21,701	16,831	19,928	0.35	0.83	0.13	0.17	0.18	0.21	0.20	0.66	0.27	15
	9	5.49	3.92	22,808	17,495	20,123	0.33	0.86	0.13	0.17	0.18	0.20	0.20	0.66	0.26	15
	10	5.85	4.11	20,712	17,817	19,238	0.32	1.05	0.13	0.16	0.18	0.20	0.21	0.66	0.28	17
	11	5.74	4.05	15,658	17,621	17,448	0.31	0.90	0.13	0.16	0.18	0.20	0.21	0.68	0.28	16
	12	5.70	3.91	15,236	17,422	17,447	0.28	0.71	0.13	0.15	0.17	0.20	0.21	0.70	0.27	16
	13	5.81	3.99	14,136	17,169	13,856	0.27	0.79	0.13	0.15	0.17	0.19	0.21	0.70	0.26	15
	14	6.00	4.19	13,113	16,879	13,263	0.29	1.21	0.13	0.14	0.17	0.19	0.22	0.71	0.24	15
	15	6.34	4.42	12,285	16,573	10,737	0.31	1.86	0.14	0.14	0.17	0.18	0.21	0.72	0.24	15
	16	6.10	4.46	11,328	16,245	10,037	0.31	1.74	0.13	0.14	0.16	0.18	0.21	0.75	0.23	15
	17	5.77	4.23	11,497	15,966	10,038	0.29	1.30	0.00	0.00	0.16	0.18	0.21	0.76	0.24	15
	18	5.78	4.19	10,830	15,681	9,770	0.30	1.62	0.00	0.00	0.16	0.17	0.21	0.73	0.24	14
	19	5.56	4.30	9,514	15,356	9,100	0.31	1.72	0.14	0.00	0.16	0.17	0.21	0.73	0.25	13
	20	5.24	4.04	8,189	14,998	8,561	0.29	1.34	0.14	0.00	0.16	0.17	0.22	0.73	0.26	14
	21	5.01	3.73	8,525	14,690	8,279	0.27	1.18	0.14	0.00	0.15	0.17	0.22	0.70	0.27	13
	22	5.11	3.62	7,235	14,351	7,948	0.28	1.27	0.14	0.00	0.15	0.17	0.22	0.66	0.29	13
	23	5.41	3.69	7,547	14,055	7,704	0.31	1.90	0.14	0.00	0.15	0.16	0.21	0.72	0.28	13
	24	6.14	4.14	7,417	13,778	7,556	0.45	3.38	0.15	0.00	0.16	0.16	0.21	0.77	0.27	13
	25	6.23	4.23	7,052	13,509	7,201	0.54	4.11	0.16	0.00	0.17	0.16	0.21	0.85	0.27	13
	26	6.32	4.10	6,862	13,254	7,404	0.58	3.84	0.16	0.00	0.18	0.16	0.21	0.85	0.27	13
	27	6.41	4.10	6,698	13,011	7,371	0.70	4.05	0.19	0.00	0.18	0.16	0.21	0.80	0.26	12
	28	6.40	4.12	6,022	12,761	7,062	0.82	4.42	0.22	0.14	0.19	0.16	0.21	0.80	0.25	12
	29	6.36	4.08	5,561	12,513	6,733	0.89	4.61	0.24	0.14	0.20	0.17	0.21	0.90	0.26	12
	30	6.26	4.17	5,708	12,286	6,611	0.98	4.94	0.26	0.15	0.21	0.17	0.21	0.86	0.26	12
	31	6.06	4.16	8,202	12,154	6,645	1.00	4.91	0.27	0.17	0.21	0.17	0.22	0.82	0.29	12

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

f = Excess Delta conditions with fish concerns.

N.R. = No Record.

r = Excess delta conditions with export/inflow ratio concerns.

N.C. = Not computed due to insufficient data.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

**Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP**

October 2011

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	September 21, 2011	None	
California Aqueduct At Banks Pumping Plant	September 21, 2011	None	
O'Niell Forebay Outlet Check 13	September 20, 2011	None	
Delta Mendota Canal At McCabe Road	September 20, 2011	None	
California Aqueduct Near Kettleman City (Check 21)	September 20, 2011	None	
California Aqueduct At Near Highway 119 (Check 29)	September 20, 2011	None	
California Aqueduct at Tehachapi Afterbay (Check 41)	September 21, 2011	None	
California Aqueduct At Devil Canyon Headworks	September 21, 2011	None	

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

**Table 35. Oroville and Delta Field Divisions Energy Data**

(in kWh)

October 2011

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	10,614,692	0	31,721	35,578	3,918,520	3,918,520	418,532	550
2	10,573,321	0	30,428	29,467	3,706,576	3,706,576	422,091	648
3	10,589,238	0	26,895	25,664	3,446,312	3,446,312	418,529	785
4	11,710,501	0	21,188	22,799	3,679,944	3,679,944	385,760	774
5	11,720,841	0	20,542	22,343	3,683,112	3,683,112	353,354	743
6	11,704,627	0	18,674	22,887	3,677,688	3,677,688	343,067	975
7	9,640,081	0	21,469	26,231	3,229,248	3,229,248	323,213	910
8	9,681,133	0	22,380	26,137	2,869,488	2,869,488	338,748	797
9	4,775,133	11	20,506	28,286	3,704,744	3,704,744	326,161	753
10	7,051,737	550	15,141	24,290	3,661,816	3,661,816	343,229	726
11	6,632,164	0	6,726	11,912	3,651,432	3,651,432	269,460	659
12	6,493,553	11	1,059	2,336	3,656,776	3,656,776	281,528	616
13	4,989,666	0	2,886	6,445	3,619,944	3,619,944	307,942	605
14	4,979,491	0	13,668	19,204	3,681,224	3,681,224	324,879	599
15	8,336,955	0	18,830	23,228	3,711,704	3,711,704	326,574	608
16	3,589,289	33	20,912	20,799	3,871,880	3,871,880	324,798	683
17	4,013,108	0	22,845	24,296	3,654,336	3,654,336	333,208	670
18	4,006,145	0	35,606	40,546	3,654,632	3,654,632	336,334	605
19	4,007,102	77	40,093	47,296	3,356,792	3,356,792	340,829	735
20	4,033,249	0	38,657	45,187	3,374,112	3,374,112	329,320	756
21	4,026,616	0	42,537	49,970	3,101,248	3,101,248	345,816	789
22	4,007,707	0	39,806	44,201	4,080,272	4,080,272	332,598	682
23	4,017,981	0	43,340	49,739	4,459,248	4,459,248	340,679	657
24	3,992,208	0	46,597	47,976	3,691,040	3,691,040	333,516	673
25	3,973,871	33	42,217	46,339	3,519,992	3,519,992	283,096	731
26	3,996,531	0	45,220	51,680	3,517,704	3,517,704	315,424	785
27	4,007,135	0	37,654	47,727	3,512,384	3,512,384	301,410	818
28	4,017,068	0	38,788	47,560	3,591,864	3,591,864	290,352	845
29	4,060,353	0	38,708	48,460	3,712,584	3,712,584	306,740	789
30	4,035,845	0	36,602	45,910	3,721,336	3,721,336	298,020	719
31	4,033,205	0	45,301	52,531	3,682,984	3,682,984	311,650	682
Total	193,310,546	715	886,994	1,037,022	112,400,936	112,400,936	10,306,852	22,365

**Table 36. San Luis Field Division Energy Data**

(in kWh)

October 2011

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,894,919	1,702,919	0	0	200,057	200,057
2	1,750,507	1,534,507	0	0	1,122,891	-5,109
3	1,453,561	1,261,561	0	0	1,122,814	1,122,814
4	1,534,675	1,342,675	0	0	1,121,318	1,121,318
5	1,223,008	1,031,008	0	0	2,241,492	1,113,492
6	1,220,767	1,028,767	0	0	1,348,655	220,655
7	1,380,731	1,188,731	0	0	1,119,096	-8,904
8	1,353,272	1,161,272	0	0	1,536,689	408,689
9	1,169,289	953,289	0	0	3,328,809	2,200,809
10	1,240,947	1,048,947	0	0	3,320,438	2,192,438
11	1,075,356	883,356	0	0	3,840,518	2,712,518
12	1,193,767	1,001,767	0	0	2,347,037	1,783,037
13	1,037,513	845,513	0	0	4,364,690	2,108,690
14	1,191,040	999,040	0	0	3,426,698	1,170,698
15	1,364,526	1,172,526	0	0	3,471,941	1,215,941
16	1,405,220	1,333,220	0	0	3,456,387	1,200,387
17	1,116,763	1,044,763	0	0	3,270,355	1,860,355
18	1,140,097	1,068,097	0	0	3,465,550	2,337,550
19	1,135,382	1,063,382	0	0	3,449,083	2,321,083
20	1,114,025	1,042,025	0	0	3,394,501	1,138,501
21	1,499,099	1,427,099	0	0	2,633,532	377,532
22	1,524,479	1,452,479	0	0	2,469,775	213,775
23	1,604,740	1,532,740	0	0	3,445,552	1,069,552
24	1,065,253	993,253	0	0	3,444,551	1,068,551
25	1,129,885	1,057,885	0	0	3,432,143	1,884,143
26	1,211,225	1,139,225	0	0	2,605,240	1,241,240
27	1,249,479	1,177,479	0	0	2,337,951	699,951
28	1,567,836	1,375,836	0	0	1,542,079	79
29	1,347,889	1,155,889	0	0	2,338,831	1,066,831
30	1,420,870	1,228,870	0	0	2,342,098	-9,902
31	1,570,909	1,378,909	0	0	693,198	693,198
Total	41,187,031	36,627,031	0	0	78,233,969	34,719,969

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

**Table 37. San Joaquin Field Division Plant Energy Load Data**

(in kWh)

October 2011

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devil's Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	29,237	78,264	65,752	60,811	65,921	1,691,755	1,736,201	3,839,000	14,278,977
2	30,669	80,496	45,404	43,100	47,058	1,603,600	1,708,114	3,777,224	13,946,607
3	29,872	79,970	67,010	63,331	67,562	1,105,115	1,163,840	2,517,900	9,018,162
4	28,709	75,971	40,485	36,090	38,503	1,085,618	1,063,924	2,334,695	8,625,042
5	20,932	53,327	47,219	44,046	46,940	931,063	943,335	2,016,113	7,283,628
6	16,287	40,223	36,795	34,182	37,083	899,887	856,742	1,818,608	6,741,468
7	11,655	31,273	40,023	37,669	40,137	978,752	1,031,139	2,198,405	8,038,872
8	11,149	28,065	26,354	24,215	26,175	1,148,342	1,214,341	2,670,327	9,929,088
9	17,070	43,876	44,866	42,326	45,131	1,219,124	1,242,171	2,752,970	10,190,232
10	19,162	45,848	41,389	37,938	40,584	1,157,159	1,227,429	2,701,963	9,953,091
11	19,650	51,134	47,118	44,113	47,234	1,310,486	1,374,658	3,009,369	11,331,144
12	15,191	39,836	48,237	44,909	48,751	1,153,350	1,160,807	2,527,448	9,251,388
13	21,451	54,336	65,172	60,104	64,511	1,007,770	989,611	2,109,349	7,637,760
14	22,248	58,123	58,563	55,409	59,565	1,081,602	1,131,116	2,422,057	8,754,048
15	20,567	54,463	59,753	55,035	59,879	1,534,774	1,578,595	3,441,240	12,885,318
16	18,872	47,828	57,524	53,505	57,507	1,726,452	1,816,708	4,046,548	15,171,165
17	19,626	50,466	48,424	45,528	48,837	891,846	915,052	1,997,204	7,154,163
18	20,293	54,443	49,033	45,895	49,457	969,010	912,033	1,964,303	7,159,158
19	25,140	66,153	60,498	56,142	59,861	1,032,638	1,029,553	2,259,675	8,258,544
20	23,627	59,956	51,399	48,802	52,958	1,083,361	1,047,296	2,278,496	8,342,892
21	24,824	63,672	58,828	55,219	58,005	1,179,097	1,195,909	2,629,077	9,849,357
22	27,255	72,260	49,369	46,385	49,835	1,624,135	1,649,324	3,622,058	13,243,338
23	27,071	71,679	59,159	53,586	59,085	1,716,167	1,909,584	4,206,422	15,821,028
24	36,180	93,240	45,842	43,033	46,612	838,094	842,512	1,816,067	6,380,559
25	40,049	100,892	47,398	44,140	47,285	680,141	643,682	1,369,170	5,252,985
26	34,343	88,217	58,986	54,133	59,017	827,860	853,150	1,833,117	6,732,126
27	41,558	104,783	54,144	50,632	53,501	907,225	818,294	1,787,797	6,322,644
28	39,745	102,489	51,566	47,717	51,619	1,064,842	1,066,090	2,316,930	8,526,411
29	32,289	83,760	41,899	39,006	41,817	893,048	941,735	2,077,185	7,747,758
30	28,003	73,035	45,173	42,037	46,207	808,193	870,655	1,930,247	7,245,612
31	22,827	58,697	52,538	49,278	52,681	1,552,347	1,571,866	3,460,567	12,885,156
Total	775,551	2,006,775	1,565,920	1,458,318	1,569,317	35,702,852	36,505,465	79,731,531	293,957,721

**Table 38. Southern Field Division Energy Data**

(in kWh)

October 2011

Date	West Branch			East Branch				East Branch Extension		
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic SWP Gen /1	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Green spot Pumping Plant	Crafton Hills Pumping Plant	Cherry Valley Pumping Plant
1	501,751	892,239	1,440,000	332,132	2,789,724	3,445,492	299,145	48,987	67,310	4,309
2	391,339	895,347	1,440,000	331,646	2,787,486	3,324,071	298,548	41,028	57,040	4,289
3	198,068	189,726	456,000	301,734	1,961,131	3,348,554	238,357	35,344	49,611	4,261
4	8,293	0	456,000	328,123	2,356,427	3,252,974	266,456	30,531	43,323	4,114
5	7,703	0	456,000	294,416	1,929,760	3,108,136	205,195	25,021	34,834	4,009
6	7,644	0	456,000	316,331	1,898,979	3,080,246	194,259	31,192	41,902	4,034
7	107,976	268,909	456,000	328,228	1,808,462	2,951,323	192,071	36,175	49,198	4,039
8	350,351	890,452	456,000	321,517	1,902,995	3,081,683	184,280	38,434	49,277	4,082
9	391,730	867,850	456,000	330,963	1,813,376	3,072,344	198,244	40,230	49,358	4,131
10	392,120	866,165	1,440,000	307,690	1,812,732	3,060,828	189,642	40,257	49,324	4,189
11	322,308	877,597	1,440,000	322,959	1,848,320	2,936,218	31,819	48,539	59,467	4,227
12	247,080	891,159	1,440,000	307,858	1,940,351	3,257,305	58,028	51,477	67,274	4,327
13	0	783,103	1,440,000	315,457	2,017,248	3,135,956	221,551	49,777	67,333	4,379
14	174,439	765,863	1,440,000	327,403	2,031,369	3,127,280	222,845	49,852	67,215	4,366
15	564,211	875,073	1,440,000	322,906	2,074,108	2,871,306	234,416	49,035	67,128	4,327
16	802,328	790,698	1,440,000	317,206	2,120,306	3,037,255	229,247	48,605	67,097	4,306
17	139,608	195,653	912,000	296,704	1,542,730	3,191,962	162,710	54,139	67,097	4,337
18	0	0	912,000	314,953	1,973,103	3,545,849	166,252	52,775	67,110	4,357
19	0	0	912,000	313,742	2,124,332	3,489,660	239,919	47,802	66,722	4,260
20	0	0	912,000	309,427	1,972,730	2,947,338	226,053	46,981	66,418	4,252
21	19,996	0	912,000	321,742	2,084,341	2,736,166	213,134	47,145	66,376	4,205
22	694,642	0	912,000	335,265	2,272,427	3,331,098	240,706	47,448	66,545	4,280
23	743,423	0	912,000	327,994	2,688,116	3,296,128	281,446	47,321	66,577	4,298
24	378,886	383,643	1,440,000	104,766	646,323	3,117,348	68,666	47,010	66,406	4,292
25	545,267	897,207	1,440,000	0	0	2,755,667	0	46,967	66,290	4,149
26	679,083	898,933	1,440,000	0	0	2,768,933	0	47,984	66,289	4,097
27	698,030	894,170	1,440,000	20,339	0	2,705,227	0	48,123	66,335	4,151
28	666,935	895,347	1,440,000	123,850	197,897	2,639,153	33,348	47,832	66,399	4,151
29	322,932	895,747	480,000	236,394	1,695,065	2,633,422	176,288	51,287	66,461	4,190
30	282,078	896,108	480,000	245,197	1,683,888	2,642,522	230,375	55,458	66,931	4,227
31	421,529	896,127	816,000	315,954	2,113,373	2,674,706	235,067	55,613	67,035	4,275
Total	10,059,750	16,707,117	31,512,000	8,372,895	54,087,098	94,566,150	5,538,065	1,408,369	1,885,682	130,906

1/ Energy delivered to SWP by LADWP at Sylmar substation; not necessarily related to actual Castaic operations.